



## **ANTRACOL WP70**

Version 1 / ZA  
102000007039

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Revision Date: 12.05.2016  
Print Date: 03.06.2016

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1 Product identifier**

**Trade name** ANTRACOL WP70  
**Product code (UVP)** 04479696

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use** Fungicide

#### **1.3 Details of the supplier of the safety data sheet**

**Supplier** Bayer (Pty) Ltd.  
27 Wrench Road, P.O. Box 143  
1600 Isando  
South Africa

**Telephone** +27 (011) 921 5911

**Telefax** +27 (011) 921 5766

**Responsible Department** QHSE - Nigel, South Africa  
+27 (011) 365 8675 (during business hours only)

#### **1.4 Emergency telephone no.**

**Emergency telephone no.** +27 (0861) 555 777 (Western Cape Poisons Helpline)

**Global Incident Response Hotline (24h)** +1 (760) 476 3964 (Company 3E for Bayer CropScience)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Acute toxicity: Category 4  
H332 Harmful if inhaled.

Skin sensitisation: Category 1  
H317 May cause an allergic skin reaction.

Specific target organ toxicity - repeated exposure: Category 2  
H373 May cause damage to organs (Thyroid, Peripheral nervous system) through prolonged or repeated exposure if inhaled or swallowed.

Chronic aquatic toxicity: Category 2  
H411 Toxic to aquatic life with long lasting effects.

#### **2.2 Label elements**

**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Labelling according to EC Directives

**Hazardous components which must be listed on the label:**

- Propineb

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H332 Harmful if inhaled.  
 H317 May cause an allergic skin reaction.  
 H373 May cause damage to organs (Thyroid, Peripheral nervous system) through prolonged or repeated exposure if inhaled or swallowed.  
 H411 Toxic to aquatic life with long lasting effects.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P314 Get medical advice/ attention if you feel unwell.  
 P501 Dispose of contents/container as hazardous waste to an approved waste disposal plant.

**2.3 Other hazards**

Dust may form explosive mixture in air.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**Wettable powder (WP)  
Propineb 700g/kg**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		Regulation (EC) No 1272/2008	
Propineb	9016-72-2	Skin Sens. 1, H317 STOT RE 2, H373 Acute Tox. 4, H332 Aquatic Acute 1, H400	70
Methenamine	100-97-0	Flam. Sol. 2, H228 Skin Sens. 1, H317	0,7

**Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

**Inhalation** Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.



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<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms</b>	Symptoms reinforced by alcohol (Antabuse effect)
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
<b>Treatment</b>	Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Follow-up measures: Strict abstinence from alcohol for 1 to 2 weeks, due to antabuse effect.

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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand

**5.2 Special hazards arising from the substance or mixture** In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

### **5.3 Advice for firefighters**

**Special protective equipment for firefighters** In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**6.2 Environmental precautions** Do not allow to get into surface water, drains and ground water.

### **6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up** Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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- Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.
- Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Dust may form explosive mixture in air.
- Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

**7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.
- Advice on common storage** Keep away from food, drink and animal feedingstuffs.
- 7.3 Specific end use(s)** Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Propineb	9016-72-2	0,2 mg/m <sup>3</sup> (SK-SEN)		OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**8.2 Exposure controls**

- Respiratory protection** Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent.  
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
- Hand protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
- Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
- Skin and body protection** Wear standard coveralls and Category 3 Type 3 suit.  
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.



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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Form</b>	powder
<b>Colour</b>	beige
<b>Odour</b>	weak, characteristic
<b>pH</b>	4,0 - 8,0 at 1 % (23 °C) (deionized water)
<b>Melting point/range</b>	ca. 135 °C
<b>Flammability (solid, gas)</b>	The product is not highly flammable.
<b>Auto-ignition temperature</b>	The product is not self-ignitable.
<b>Dust explosion class</b>	capable of causing a dust explosion (modified Hartmann tube, ignition with continuous spark generator)
<b>Water solubility</b>	dispersible
<b>Partition coefficient: n-octanol/water</b>	Propineb: log Pow: < 3
<b>Impact sensitivity</b>	Not impact sensitive.
<b>Burning number</b>	CN3 Local combustion without spreading
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

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**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Acids

**10.6 Hazardous decomposition products** Hydrogen sulfide  
Carbon disulphide

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute oral toxicity** LD50 (Rat) 3.708 mg/kg

**Acute inhalation toxicity** LC50 (Rat) ca. 5,040 mg/l  
Determined in the form of a respirable fine dust.

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<b>Acute dermal toxicity</b>	LD50 (Rat) > 5.000 mg/kg
<b>Skin irritation</b>	No skin irritation (Rabbit)
<b>Eye irritation</b>	No eye irritation (Rabbit)
<b>Sensitisation</b>	Sensitising (Guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

**Assessment repeated dose toxicity**

Propineb caused specific target organ toxicity in experimental animal studies in the following organ(s): Peripheral nervous system, Thyroid. Propineb caused Muscular weakness in animal studies. The observed effects do not appear to be relevant for humans.

**Assessment mutagenicity**

Propineb was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Propineb caused an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

**Assessment toxicity to reproduction**

Propineb caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Propineb is related to parental toxicity.

**Assessment developmental toxicity**

Propineb did not cause developmental toxicity in rabbits. Propineb caused developmental toxicity in rats only at dose levels toxic to the dams. The developmental effects seen with Propineb are related to maternal toxicity.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 6,7 mg/l Exposure time: 96 h
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 4,7 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient propineb.
<b>Chronic toxicity to aquatic invertebrates</b>	NOEC (Daphnia (water flea)): 0,0175 mg/l Exposure time: 21 d Test conducted with a similar formulation.
<b>Toxicity to aquatic plants</b>	EC50 (Desmodesmus subspicatus (green algae)) 2,4 mg/l Exposure time: 96 h Test conducted with a similar formulation.

**12.2 Persistence and degradability**

**Biodegradability** Propineb:  
rapidly biodegradable

**Koc** Propineb: Koc: 18

**12.3 Bioaccumulative potential**

**Bioaccumulation** Propineb:



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Does not bioaccumulate.

**12.4 Mobility in soil**

**Mobility in soil** Propineb: Mobile in soils

**12.5 Results of PBT and vPvB assessment**

**PBT and vPvB assessment** Propineb: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**12.6 Other adverse effects**

**Additional ecological information** No other effects to be mentioned.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

**SECTION 14: TRANSPORT INFORMATION**

**SANS 10231**

14.1 UN number	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

**IMDG**

14.1 UN number	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

**IATA**

14.1 UN number	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE )
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

**14.6 Special precautions for user**  
See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

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No transport in bulk according to the IBC Code.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Further information**

WHO-classification: III (Slightly hazardous)

**SECTION 16: OTHER INFORMATION****Text of the hazard statements mentioned in Section 3**

H228	Flammable solid.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

**Abbreviations and acronyms**

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate (ATE)
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World health organisation





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The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.