













# TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

THIS PRODUCT WHEN STORED IN ITS UNOPENED ORIGINAL CONTAINER AWAY FROM DIRECT SUNLIGHT AND IN A COOL, DRY PLACE WILL BE FIT FOR USE FOR AT LEAST 24 MONTHS.

#### PRECAUTIONS:

- HANDLE WITH CARE; avoid contact. Poisonous when swallowed, inhaled or in contact with the skin.
- 2. KEEP OUT OF REACH OF CHILDREN.
- 3. KEEP APART FROM FOOD AND FOODSTUFFS.
- 4. Store in original container and KEEP UNDER LOCK AND KEY.
- 5. Destroy empty containers, do not use for any other purpose.
- RE-ENTRY: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

#### SYMPTOMS OF POISONING:

No specific symptoms. Alcohol-intolerance ("Antabuse-Effect").

#### FIRST AID:

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

**Skin contact:** Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

**Eye contact:** 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.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

#### **NOTE TO PHYSICIAN:**

**Treatment:** Treat symptomatically. Gastric lavage should be considered in cases of significant ingestions 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.

#### WARRANTY:

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

Bayer (Pty) Ltd. All unauthorized reproduction of this label is forbidden.

#### **DIRECTIONS FOR USE:** USE ONLY AS DIRECTED.

Mix the required quantity of **Antracol 70 WP** with a little water to form a thick cream.

Add the rest of the water and agitate well.

For period that has to be allowed between last application and harvest see "WARNING".

Always consult TRB Handbook for detailed recommendations.

CROPS	DISEASE	RATE	APPLICATION
TOBACCO SEEDBEDS (TRB Cert. No. 17-20-B-72)	Alternaria (Alternaria alternata)	HIGH VOLUME SPRAY: 270 g / 10 ℓ water ULV SPRAY: 250 g in 1 ℓ water	Start spraying 5 weeks after emergence and apply a volume of 20 m $\ell$ / m² at weekly intervals. Increase spray volume to 60 m $\ell$ / m² as the plants grow. Start spraying 5 weeks after emergence at 4 m $\ell$ / m² and repeat at weekly intervals.
TOBACCO LANDS: (TRB Cert. No. 17-20-B-72)	Frog eye	2 kg per 200 ℓ water/ha	Apply <b>Antracol 70 WP</b> at two week intervals in 200 $\ell$ water/ha, starting at 8 Weeks After Planting (WAP) and applied up to 14 WAP.
11 20-0-12)	Alternaria leaf spot:	2 kg per 200 ℓ water/ha	Apply <b>Antracol 70 WP</b> at two week intervals in 200 $\ell$ water/ha, starting at 8 Weeks After Planting (WAP) and applied up to 14 WAP.
POTATOES TOMATOES	Early blight Late blight	200 g / 100 ℓ water as high volume sprays (500 - 2000 ℓ / ha). More than 2 kg / ha is unnecessary on potatoes.	Commence spraying when blight conditions (cool, overcast conditions followed by humid weather clearing to warm) occur and continue at 7 - 10 day intervals. Repeat after rain or overhead irrigation.
VINES	Anthracnose	200 g / 100 ℓ water as high volume spray at 500 - 750 ℓ water/ha.	Apply the first spray when young shoots are 100 mm long. Further applications to be carried out with intervals of 14 days until 4-6 weeks before harvest.
	Downy mildew	200 g / 100 ℓ water as high volume spray at 500 - 750 ℓ water / ha	Application should be done before irrigation. Apply the first spray when young shoots have reached a length of approximately 100 mm. Further sprays, depending on weather conditions, to be applied at intervals of 14 days.
GROUNDNUTS	Cercospora Leafspot	200 g / 100 ℓ water. Apply as a high volume spray in 200 ℓ max.	Commence spraying as soon as the first symptoms occur and repeat with fortnightly intervals.
COFFEE	Leaf rust Cercospora Leafspot	300 g / 100 ℓ water	Apply as a full cover high volume spray at monthly intervals.

#### WARNINGS:

- 1. ALLOW 4 WEEKS BETWEEN LAST APPLICATION AND HARVEST OF GRAPES.
- 2. ALLOW 3 DAYS BETWEEN LAST APPLICATION AND HARVEST OF TOMATOES AND POTATOES.
- 3. Do not spray Antracol 70 WP on table grapes after the berries have reached pea size stage.

#### COMPATIBILITY:

Antracol 70 WP is compatible with most insecticides such as Metasystox and Tamaron® and most fungicides such as Bayleton®, Bayleton®, wettable sulphur and copper oxychloride and minor element deficiency sprays. When mixing spray, add insecticide last.

Bayer

Tamaron®, Bayleton® and Bayfidan® are registered trademarks of the Bayer Group.



1/9

## **ANTRACOL WP 70**

Version 1 / ZA

102000007039

Revision Date: 12.05.2016
Print Date: 19.04.2017

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

1.1 Product identifier

Trade name ANTRACOL WP 70

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 AG, Crop Science Division)

#### **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



## **ANTRACOL WP 70**

2/9 Version 1/ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017







### Signal word: Warning

#### **Hazard statements**

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.

To avoid risks to human health and the environment, comply with the instructions for use. EUH401

#### **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Get medical advice/ attention if you feel unwell. P314

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. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	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.



3/9

## **ANTRACOL WP 70**

Version 1 / ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

**Skin contact** Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water.

**Eye contact** 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.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center

immediately. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** Symptoms reinforced by alcohol (Antabuse effect)

4.3 Indication of any immediate medical attention and special treatment needed

**Treat ment**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.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), 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 (NOx),

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.

#### **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.



**ANTRACOL WP 70** 

Version 1 / ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

#### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

Advice on protection against Keep away from heat and sources of ignition. Dust may form explosive

mixture in air.

fire and explosion

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/m3		OES BCS*
-		(SK-SEN)		

<sup>\*</sup>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.



5/9

## **ANTRACOL WP 70**

Version 1 / ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Form powder Colour beige

**Odour** weak, characteristic

**pH** 4,0 - 8,0 at 1 % (23 ℃) (deionized water)

Melting point/range ca. 135 ℃

Flammability (solid, gas) The product is not highly flammable.

Auto-ignition temperature The product is not self-ignitable.

**Dust explosion class** capable of causing a dust explosion (modified Hartmann tube, ignition

with continuous spark generator)

Water solubility dispersible

Partition coefficient: Propineb: log Pow: < 3

n-octanol/water

Impact sensitivity Not impact sensitive.

Burning number CN3 Local combustion without spreading

**Explosivity** Not explosive

92/69/EEC, A.14 / OECD 113

**9.2 Other information** Further safety related physical-chemical data are not known.

## **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**No hazardous reactions when stored and handled according to

**hazardous reactions** prescribed instructions.

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

10.5 Incompatible materials Acids

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

#### **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.



6/9

## ANTRACOL WP 70

Version 1/ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

Acute dermal toxicity LD50 (Rat) > 5.000 mg/kgSkin irritation No skin irritation (Rabbit) Eye irritation No eye irritation (Rabbit) Sensitisation 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

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 6,7 mg/l

Exposure time: 96 h

EC50 (Daphnia magna (Water flea)) 4,7 mg/l **Toxicity to aquatic** 

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient propineb.

Chronic toxicity to aquatic

NOEC (Daphnia (water flea)): 0,0175 mg/l Exposure time: 21 d invertebrates

Test conducted with a similar formulation.

EC50 (Desmodesmus subspicatus (green algae)) 2,4 mg/l Toxicity to aquatic plants

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:



7/9

## **ANTRACOL WP 70**

 Version 1 / ZA
 Revision Date: 12.05.2016

 102000007039
 Print Date: 19.04.2017

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 **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PROPINEB MIXTURE)

14.3 Transport hazard class(es)

14.4 Packing group III

14.5 Environm. Hazardous Mark YES

**IMDG** 

14.1 UN number **3077** 

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 **307** 

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



**ANTRACOL WP 70** 

8/9 Version 1/ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

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.

May cause damage to organs through prolonged or repeated exposure. H373

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

Acute toxicity estimate ATE

Chemical Abstracts Service number CAS-Nr.

Concentration Conc.

EC-No. European community number **ECx** Effective concentration to x %

**EINECS** European inventory of existing commercial substances

**ELINCS** European list of notified chemical substances

ΕN 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) Inhibition concentration to x %

**IMDG** International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**IC**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

Organization for Economic Co-operation and Development OECD

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

**TWA** Time weighted average

UN **United Nations** 

**WHO** World health organisation



**ANTRACOL WP 70** 

9/9 Version 1/ZA Revision Date: 12.05.2016 102000007039 Print Date: 19.04.2017

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.