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## Classification of pesticides and stock remedies — Part 2: Stock remedies for sale and handling

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## Contents

Page

Foreword .....	iv
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
3.1 Definitions .....	1
3.2 Abbreviations.....	Error! Bookmark not defined.
4 Listing of stock remedies .....	2
5 Toxicity .....	2
6 Danger grouping of stock remedies .....	2
7 Special provisions for stock remedies.....	4
7.3 Special provisions for aerosol dispensers that contain stock remedies .....	4
8 Competent authorities for the marking, labelling and disposal of stock remedies .....	5
Bibliography.....	9

## Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to co-ordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
- (b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 10, *Management and services*, Subcommittee SC 4, *Pest control services*.

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# Classification of pesticides and stock remedies — Part 2: Stock remedies for sale and handling

## 1 Scope

This Final Draft Uganda Standard covers the classification of stock remedies, with the exception of vaccines and antibiotics, for sale and handling in Uganda. Each stock remedy has been allocated to one of five danger groups in accordance with the degree of its intrinsic toxic properties. The allocation is based on the WHO guidelines.

## 2 Normative references

The following referenced documents referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1

#### **danger group**

group symbol that indicates the degree of danger or hazard presented by the primary property of a specific substance in accordance with internationally recognized classifications

### 3.2

#### **pest**

any form of plant or animal life or any pathogenic agent, other than a beneficial organism, capable of directly or indirectly injuring any plant material or beneficial organism, and includes weeds

### 3.3

#### **pesticide**

chemical which, by virtue of its poisonous properties is used to kill pests in agriculture and forestry

### 3.4

#### **stock remedy**

substance intended, or offered, to be used in connection with domestic animals, livestock, poultry, fish or wild animals (including wild birds), for the diagnosis, prevention, treatment or cure of any disease, infection or other unhealthy condition, or for the maintenance or improvement of health, growth, production or working capacity, but excluding any substance in so far as it is controlled under the Medicines and Related Substances Control Act, 1965, (Act No. 101 of 1965)

NOTE Vaccines and antibiotics used as stock remedies are controlled under the Medicines and Related Substances Control Act, 1965 (Act No. 101 of 1965).

## 4 Listing of stock remedies

4.1 The Crop Life International abbreviation (code, term and definition) for each stock remedy available for sale and handling in Uganda is given in A.1.

4.2 An alphabetical list of stock remedies for sale and handling is given in A.2 comprising the following:

- a) Crop Life International abbreviation (formulation type);
- b) common name(s) of the active ingredient(s) of the formulation;
- c) concentration(s) of the active ingredient(s);
- d) description of the product;
- e) danger group; and
- f) colour code.

**NOTE** Where possible, ISO approved names have been used.

## 5 Toxicity

5.1 The  $LD_{50}$  for acute oral toxicity, in milligrams per kilogram of body mass, is that dose of the stock remedy that, when administered orally, is most likely to cause the death, within 14 days, of 50 % of both male and female young adult albino rats. The number of animals tested shall be sufficient to give a statistically significant result and the test shall comply with good laboratory practice.

5.2 The  $LD_{50}$  for acute dermal toxicity, in milligrams per kilogram of body mass, is that dose of the stock remedy that, when administered by continuous contact, for 24 h, with the bare skin of both male and female albino rabbits, is most likely, to cause the death, within 14 days, of 50 % of the animals tested. The number of animals tested shall be sufficient to give a statistically significant result and the test shall comply with good laboratory practice.

5.3 When the acute toxicity in animals of a commercial stock remedy has been determined, the stock remedy shall be classified in one of five danger groups in accordance with Table 1.

## 6 Danger grouping of stock remedies

6.1.1 The classification distinguishes between the more and the less hazardous forms of each pesticide in that it is based on the toxicity of the technical compound and on its formulations. [In particular, allowance is made for the lesser hazards from solids as compared with liquids.]

The classification is based primarily on the acute oral and dermal toxicity to the rat since these determinations are standard procedures in toxicology. Where the dermal  $LD_{50}$  value of a compound is such that it would place it in a more restrictive class than the oral  $LD_{50}$  value would indicate, the compound will always be classified in the more restrictive class. Provision is made for the classification of a particular compound to be adjusted if, for any reason, the acute hazard to man differs from that indicated by  $LD_{50}$  assessments alone.

6.1.2 Table 1 shows WHO uses the Acute Toxicity Hazard Categories from the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as the starting point for classification. This change is consistent with the 1975 World Health Assembly Resolution which envisaged that the WHO Classification would be further developed with time in consultation with countries, international agencies and regional bodies. The GHS meets this requirement as a classification system with global acceptance following extensive international consultation

Table 1 —Recommended criteria for classification

WHO Class		<i>LD</i> <sub>50</sub> for the rat mg/kg body weight	
		Oral	Dermal
Ia	Extremely hazardous	< 5	< 50
Ib	Highly hazardous	5 – 50	50 – 200
II	Moderately hazardous	50 – 2 000	200 – 2 000
III	Slightly hazardous	Over 2 000	Over 2 000
U	Unlikely to present acute hazard	5 000 or higher	

**6.2** The danger grouping criteria given in Table 1 are applicable to the labelling and marking of stock remedies for purposes of sale and handling in Uganda.

**6.3** The allocation of a stock remedy to a danger group is based on the toxicity of the active ingredient(s) of the formulation; flammability is not taken into account.

**6.4** In allocating stock remedies to danger groups, cognizance shall be taken of instances of accidental poisoning in humans, any special properties of individual stock remedies (for example, liquid state or high volatility), any special likelihood of penetration and special biological effects.

**6.5** In cases where no history of poisoning in humans is available, the allocation of a stock remedy to a danger group is based on data obtained from animal experiments.

**6.6** In cases where two or more routes of administering a stock remedy exhibited different orders of toxicity, the allocation of that stock remedy to a danger group is based on the higher degree of danger.

**6.7** In cases where the *LD*<sub>50</sub> of the active ingredient in a solid, dry stock remedy is known, the *LD*<sub>50</sub> of the stock remedy can be calculated by using the following formula:

$$LD_{50f} = \frac{LD_{50a} \times 100}{P_a}$$

where

*LD*<sub>50f</sub> is the *LD*<sub>50</sub> value for the stock remedy, in milligrams per kilogram;

*LD*<sub>50a</sub> is the *LD*<sub>50</sub> value for the active ingredient, in milligrams per kilogram;

*P*<sub>a</sub> is the percentage (by mass) of the active ingredient in the stock remedy.

**6.8** In cases where the stock remedy contains several active ingredients, the danger group allocation is based on the *LD*<sub>50</sub> of the stock remedy as a whole, in accordance with the criteria given in 6.4 to 6.6 (inclusive).

**6.9** In cases where it is not practical to determine the *LD*<sub>50</sub> of a solid, dry stock remedy that contains several active ingredients as described in 6.4 to 6.6, the following formula can be used:

$$\frac{C_a}{T_a} + \frac{C_b}{T_b} + \frac{C_z}{T_z} = \frac{100}{T_m}$$

where

*C* is the concentration of active ingredients a, b...z in the stock remedy, as a percentage (by mass);

*T* is the oral  $LD_{50}$  of active ingredients a, b...z, in milligrams per kilogram;

$T_m$  is the oral  $LD_{50}$  of the stock remedy as a whole, in milligrams per kilogram.

NOTE The formula can also be used to determine dermal toxicity, provided that information is available on the same route of toxicity for all the active ingredients of a stock remedy. The use of this formula does not take into account any potentiation or protective phenomena

**6.10** In cases where it is not practical to determine the experimental toxicity of a liquid stock remedy by using the methods given in 6.4 and 6.5, the formulation shall be classified in accordance with the  $LD_{50}$  of the active ingredient. If more than one active ingredient is present in a liquid stock remedy, the formulation shall be classified in accordance with the  $LD_{50}$  of the most toxic active ingredient.

## 7 Special provisions for stock remedies

### 7.1 Special provisions for stock remedies with certain active ingredients

Stock remedies that contain the following active ingredients are allocated to the danger groups indicated:

- a) phosphoric acid: danger group III;
- b) sulfonic acid: danger group III;
- c) coal tar solutions: danger group II;
- d) formaldehyde: danger group II;
- e) glutaraldehyde: danger group II;
- f) monensin: danger group II; and
- g) narasin: danger group III.

### 7.2 Special provisions for anthelmintics

Anthelmintics are allocated to the following danger groups:

- a) liquid anthelmintics: danger group III; and
- b) solid anthelmintics: danger group IV.

### 7.3 Special provisions for aerosol dispensers that contain stock remedies

Aerosol dispensers that contain stock remedies are allocated to the following danger groups:

- a) aerosol dispensers that contain pesticides: danger groups II or III; and
- b) aerosol dispensers that do not contain pesticides: danger group IV.



## **8 Competent authorities for the marking, labeling and disposal of stock remedies**

**8.1** The marking, labelling and disposal of stock remedies are not covered by this standard.

**8.2** Information on the marking and labelling of packaging for stock remedies intended for sale and handling on the Uganda market can be obtained from the Registrar: Act 36/1947.

**8.3** Stock remedies shall be disposed of in accordance with the minimum requirements for the handling, classification and disposal of hazardous waste,

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## **Annex A**

(normative)

### **Crop life international abbreviations and alphabetical list of stock remedies**

#### **A.1 Crop life international abbreviations**

Code Term Definition

- AE**  
**Aerosol dispenser**  
A container from which the active ingredient(s) is/are dispersed generally by a propellant as fine droplets/particles upon the actuation of a valve
- AL Liquids to be applied undiluted Self-defining
- BR**  
**Briquette**  
A solid block designed for controlled releases of active ingredient
- CG**  
**Encapsulated granule**  
A granule with a protective or release-controlling coating DP Dustable powder  
A free-flowing powder, suitable for dusting
- EC**  
**Emulsifiable concentrate**  
A liquid, homogeneous stock remedy to be applied as an emulsion after dilution in water
- FU**  
**Smoke generator**  
A combustible stock remedy, generally solid that, upon ignition, releases the active ingredient(s) in the form of smoke
- GS**  
**Grease**  
A very viscous stock remedy based on oil or fat
- OL**  
**Oil miscible liquid**  
A liquid homogeneous stock remedy
- PC**  
**Paste concentrate or gel**  
A solid stock remedy to be applied as a paste after dilution with water, or as a gel
- PO**  
**Pour-on**  
A solution for pouring onto the skin of animals, in high volume (normally more than 100 ml per animal)

**SA**

**Spot-on**

A solution for spot application to the skin of animals, in low volume (normally less than 100 ml per animal)

SC Suspension concentrate (= flowable concentrate) A stable suspension of active ingredients in a fluid intended for dilution with water before use

**SP**

**Water-soluble powder**

A powder stock remedy to be applied as a true solution of the active ingredient after solution in water but that could contain insoluble, inert ingredients

**TB**

**Tablet**

A solid stock remedy in the form of small, flat plates

**WP**

**Wettable powder**

A powder stock remedy to be applied as a suspension after dispersion in water

**XX**

**Others**

All stock remedies not yet designated by a specific abbreviation

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## A.2 ALPHABETICAL LIST OF STOCK REMEDIES

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Abamectin	0,08 % m/v	anthelmintic (liquid)	III	blue
XX	Abamectin	0,2 % m/v	anthelmintic (oral solution)	III	blue
PA	Abamectin	3,7 mg/g	paste	III	blue
XX	Abamectin\ praziquantel	0,08 %\ 1,5 % (all m/v)	anthelmintic (oral solution)	III	blue
XX	Abamectin\ praziquantel	0,8 g\ 10 g (all /L)	anthelmintic (liquid)	III	blue
PA	Abamectin\ praziquantel	3,7 mg\ 46,2 mg (all /g)	anthelmintic (oral paste)	III	blue
XX	Albendazole	1,9 % m/v	anthelmintic (liquid)	III	blue
XX	Albendazole	10 % m/v	anthelmintic (oral suspension)	III	blue
XX	Albendazole	2,5 % m/v	anthelmintic (oral suspension)	III	blue
TB	Albendazole	35 % m/m	anthelmintic (tablet)	IV	green
XX	Albendazole	35 % m/m	capsule intraruminal slow release	IV	green
TB	Albendazole	40 % m/m	anthelmintic (tablet)	IV	green
XX	Albendazole	40 % m/m	capsule intraruminal slow release	IV	green
XX	Albendazole	7,5 % m/v	anthelmintic (liquid)	III	blue
XX	Albendazole	7,6 % m/v	anthelmintic (aqueous suspension)	III	blue
XX	Albendazole\ closantel	1,9 %\ 3 % (all m/v)	anthelmintic (liquid)	III	blue
XX	Albendazole\ niclosamide	1,1 %\ 14,3 % (all m/v)	anthelmintic (liquid)	III	blue
XX	Alkyl benzene sulfonic acid	10,05 % v/v	liquid	III	blue
XX	Alkyl benzene sulfonic acid	10,05 % v/v	teat dip solution	III	blue
AL	Alkyl benzene sulfonic acid	11,4 % m/v	teat spray	III	blue
XX	Alkyl benzoic acid	11,4 % m/v	teat dip	III	blue
XX	Alkyl dimethyl benzyl ammonium chloride	5 % m/v	teat dip	II	yellow
XX	Alkyl dimethyl benzyl ammonium chloride\ didecyl dimethyl ammonium chloride	0,05 g\ 0,05 g (all /100g)	water additive	II	yellow
XX	Alkyl dimethyl benzyl ammonium chloride\ didecyl dimethyl ammonium chloride	0,5 g\ 0,5 g (all /100g)	water additive	II	yellow
XX	Alkyl dimethyl benzyl ammonium chloride\ didecyl dimethyl ammonium chloride	2,5 g\ 2,5 g (all /100g)	water additive	II	yellow
EC	Amitraz	12,5 % m/v	emulsifiable concentrate	II	yellow
OL	Amitraz	12,5 % m/v	dip (miscible oil)	II	yellow
EC	Amitraz	131,6 g/L	spraydip (emulsifiable concentrate)	II	yellow
PO	Amitraz	1 % m/v	pour-on	IV	green
EC	Amitraz	20 % m/v	emulsifiable concentrate	II	yellow
WP	Amitraz	23,75 % m/m	wettable powder	IV	green
WP	Amitraz	23,75 % m/m	dip (wettable powder)	IV	green
WP	Amitraz	23,75 % m/m	spray (wettable powder)	IV	green
EC	Amitraz	25 % m/v	spray (emulsifiable)	II	yellow

## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
EC	Amitraz	25 % m/v	concentrate) emulsifiable concentrate	II	yellow
PO	Amitraz	2 % m/v	pour-on	IV	green
XX	Amitraz	9 % m/m	collar	IV	green
WP	Amitraz (95%)	25 kg/100 kg	wettable powder	IV	green
WP	Amitraz technical 95%	25 g/100 g	spraydip (wettable powder)	IV	green
PO	Amitraz\ cypermethrin\ piperonyl butoxide	1 %\ 1 %\ 5 % (all m/v)	pour-on	IV	green
PO	Amitraz\ deltamethrin\ piperonyl butoxide	2 %\ 0,5 %\ 2 % (all m/v)	pour-on	IV	green
XX	Amitraz\ lindane	13 %\ 15,8 % (all m/m)	collar	III	blue
SP	Pack I: Ammonium chloride\ poly ethanoxy alkyl ether\ phenolphthalein Pack II: Sodium hydroxide\ dichlorophen	Pack I: 95,64 %\ 4,269 %\ 0,085 % (all m/m) Pack II: 96,74 %\ 3,26 % (all m/m)	soluble powder (disinfectant)	III	blue
WP	Azamethiphos	500 g/kg	wettable powder	IV	green
XX	Benzyl alcohol\ dodecyl benzene sulfonic acid	4 %\ 2 % (all m/m)	teat dip	III	blue
XX	Benzyl alcohol BP\ dodecyl benzene sulfonic acid\ glycerine BP\ phosphoric acid 75%\ sodium hydroxide\ rhamosan gum\ blue dye\ water	4 %\ 2 %\ 10 %\ 0,2 %\ 0,38 %\ 0,1 %\ 0,003 %\ 83,317 % (all m/v)	teat dip	III	blue
XX	Carbaryl	20 % m/v	shampoo	II	yellow
DP	Carbaryl	5 % m/m	dustable powder	IV	green
WP	Carbaryl	50 % m/m	spray (wettable powder)	III	blue
AL	Cetrimide	6,0 g/l	antiseptic horse wash	IV	green
AL	Cetrimide\ tagette oil\ oil of buchu	10 g\ 0,2 ml\ 0,05 ml (all /L)	shampoo	IV	green
AL	Cetrimide\ tagette oil\ oil of buchu\ coal tar	10 g\ 0,2 ml\ 0,05 ml\ 0,0525 ml (all /L)	shampoo	IV	green
AL	Cetrimide\ tagette oil\ oil of buchu\ proteins\ amino acids	10 g\ 0,2 ml\ 0,05 ml\ 0,1 ml\ 0,1 ml (all /L)	liquid (conditioner)	IV	green
AL	Chlorfenvinphos	0,08 % m/v	liquid	IV	green
AL	Chlorfenvinphos	0,3 % m/v	liquid	IV	green
GS	Chlorfenvinphos	0,3 % m/m	grease	IV	green
EC	Chlorfenvinphos	30 % m/v	emulsifiable concentrate	lb	red

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
EC	Chlorfenvinphos	30 % m/v	dip (emulsifiable concentrate)	Ib	red
XX	Chlorfenvinphos	9 % m/v	liquid	Ib	red
EC	Chlorfenvinphos\ alpha-cypermethrin	30 %\ 3 % (all m/v)	emulsifiable concentrate	Ib	red
GS	Chlorfenvinphos\ cypermethrin	1 %\ 0,05 % (all m/m)	grease	IV	green
AL	Chlorfenvinphos\ cypermethrin\ pine oil	1 %\ 0,1 %\ 4 % (all m/v)	liquid (oil)	IV	green
AE	Chlorfenvinphos\ dichlorvos\ gentian violet	0,5 %\ 0,83 %\ 0,1 % (all m/m)	aerosol	II	yellow
EC	Chlorfenvinphos\ esfenvalerate	30 %\ 2,2 % (all m/v)	dip (emulsifiable concentrate)	Ib	red
AL	Chlorfenvinphos\ naphthalene\ cresylic acid\ eucalyptis oil	0,25 %\ 6,0 %\ 2,5 %\ 2,5 % (all m/v)	liquid	IV	green
XX	Chlorhexidine (Spherulites)	3 % m/v	shampoo	III	blue
XX	Chlorhexidine digluconate	1,9 % m/v	teat dip	II	yellow
AL	Chlorhexidine gluconate	0,75 % m/v	teat dip	IV	green
XX	Chlorhexidine gluconate	3,75 % m/v	teat dip	II	yellow
XX	Chlorhexidine gluconate	3,9 % m/v	teat dip	II	yellow
XX	Chlorhexidine gluconate	7,5 % m/v	teat dip	II	yellow
AL	Chlorhexidine gluconate\ cetrimide\ gentian violet	1 g\ 10 g\ 0,5 g (all /L)	spray	IV	green
AL	Chlorhexidine gluconate\ glucitol\ lanolin\ Vit. E	0,75 %\ 5,00 %\ 0,10 %\ 0,05 % (all m/v)	teat dip	IV	green
XX	Chlorhexadine digluconate\ glycerine\ alkyl benzene sulfate	2,5 %\ 30 %\ 12 % (all m/m)	teat dip	IV	green
DP	Chlorpyrifos	14 % m/m	powder	III	blue
EC	Chlorpyrifos	18 % m/v	dip	Ib	red
DP	Chlorpyrifos	0,34 % (all m/m)	dustable powder	IV	green
PO	Chlorpyrifos\ permethrin	4 %\ 4 % (all m/v)	pour-on	III	blue
XX	Closantel	10 % m/v	anthelmintic (injectable solution)	III	blue
XX	Closantel	15 % m/v	anthelmintic (injection)	III	blue
XX	Closantel	2,5 % m/v	anthelmintic (liquid)	III	blue
XX	Closantel	2,5 % m/v	anthelmintic (oral suspension)	III	blue
XX	Closantel	5 % m/v	anthelmintic (injection)	III	blue
XX	Closantel	5 % m/v	anthelmintic (oral solution)	III	blue
XX	Closantel	7,5 % m/v	anthelmintic	III	blue

## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Closantel\ albendazole	3,75 %\ 1,9 % (all m/v)	(oral solution) anthelmintic (liquid)	III	blue
XX	Closantel\ albendazole	3,75 %\ 19 % (all m/v)	anthelmintic (oral solution)	III	blue
XX	Closantel\ albendazole	3,75 %\ 19 % (all m/v)	anthelmintic (oral suspension)	III	blue
XX	Closantel\ mebendazole	2,58 %\ 3,75 % (all m/v)	anthelmintic (liquid)	III	blue
XX	Closantel\ povidone	10 %\ 9 % (all m/v)	anthelmintic (injectable solution)	III	blue
XX	Compound iodine complex\ phosphoric acid	55 g\ 100 g (all /L)	disinfectant	III	blue
PO	Cyfluthrin	1 % m/v	pour-on	IV	green
PO	Cyfluthrin	1,1 % m/m	pour-on	IV	green
PO	Cyfluthrin\ flumethrin	0,5 %\ 0,5 % (all m/v)	pour-on	IV	green
XX	Cyhalothrin	5 % m/v	dip	II	red
EC	Cymiazol\ cypermethrin	17,5 %\ 2,5 % (all m/v)	dip (emulsifiable concentrate)	II	yellow
GS	Cypermethrin	0,025 % m/m	grease	IV	green
AL	Cypermethrin	0,25 % m/v	spray	IV	green
AE	Cypermethrin	0,5 % m/m	aerosol	II	yellow
XX	Cypermethrin	15 % m/v	emulsion	II	yellow
EC	Cypermethrin	15 % m/v	dip (emulsifiable concentrate)	II	yellow
PO	Cypermethrin	1 % m/v	pour-on	IV	green
AL	Cypermethrin	200 g/L	spray (dip)	II	yellow
EC	Cypermethrin	20 % m/v	emulsifiable concentrate	II	yellow
EC	Cypermethrin	20 % m/v	dip (emulsifiable concentrate)	II	yellow
AL	Cypermethrin	0,5 % m/v	spray	IV	green
PO	Cypermethrin	5 % m/v	pour-on	IV	green
XX	Cypermethrin	7 % m/v	dip	II	yellow
EC	alpha-Cypermethrin	7 % m/v	emulsifiable concentrate	II	red
PO	alpha-Cypermethrin	15 g/L	pour-on (oil suspension)	IV	green
PO	alpha-Cypermethrin	1,5 % m/v	pour-on	IV	green
PO	alpha-Cypermethrin\ cypermethrin\ tetrachlorvinphos\ piperonyl butoxide	0,5 %\ 1 %\ 2 %\ 7,5 % (all m/m)	pour-on	IV	green
PO	Cypermethrin\ amitraz	1,5 %\ 1,75 % (all m/v)	pour-on	IV	green
EC	Cypermethrin\ amitraz	7 %\ 25 % (all m/v)	dip	II	yellow
AL	Cypermethrin\ butoxypolypropylene glycol	0,25 %\ 10 % (all m/v)	liquid	IV	green
AL	Cypermethrin\ chlorfenvinphos\ pine oil	0,1 %\ 1 %\ 4 % (all m/v)	liquid (oil)	II	yellow

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
AL	Cypermethrin\ citronella oil	0,3 %\ 0,6 % (all m/v)	spray	IV	green
XX	Cypermethrin\ citronella oil	0,3 %\ 0,6 % (all m/v)	gel	IV	green
AL	Cypermethrin\ dichlorophen\ chlorocresol	0,0125 %\ 0,015 %\ 0,5 % (all m/v)	oil	IV	green
AE	Cypermethrin\ dichlorophen\ chlorocresol\ gentian violet	0,0125 %\ 0,015 %\ 0,5 %\ 0,15 % (all m/v)	aerosol	II	yellow
AE	Cypermethrin\ dichlorophen\ chlorocresol\ pine oil\ gentian violet\ commercial white oil	0,0125 %\ 0,015 %\ 0,5 %\ 15 %\ 0,15 %\ to 100 % (all /400 g)	aerosol (spray)	II	yellow
AL	Cypermethrin\ dichlorvos	5 %\ 45 % (all m/v)	spray (dip)	Ib	red
AL	Cypermethrin\ piperonyl butoxide	0,062 %\ 0,3125 % (all m/v)	shampoo	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,065 %\ 0,325 % (all m/v)	shampoo	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,0025 %\ 0,0125 % (all m/v)	spray	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,0025 %\ 0,015 % (all m/v)	spray	IV	green
AE	Cypermethrin\ piperonyl butoxide	0,02 %\ 0,1 % (all m/m)	aerosol	II	yellow
AL	Cypermethrin\ piperonyl butoxide	0,05 %\ 0,4 % (all m/v)	shampoo	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,069 %\ 0,313 % (all m/v)	shampoo	IV	green
DP	Cypermethrin\ piperonyl butoxide	0,2 %\ 1 % (all m/m)	dustable powder	IV	green
DP	Cypermethrin 90%\ piperonyl butoxide 85%	0,2 %\ 1 % (all m/m)	dustable powder	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,25 %\ 1,25 % (all m/v)	liquid	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,25 %\ 1,25 % (all m/v)	spray	IV	green
AL	Cypermethrin 90%\ piperonyl butoxide 85%	0,25 %\ 1,25 % (all m/v)	spray	IV	green
XX	Cypermethrin\ piperonyl butoxide	0,25 %\ 1,25 % (all m/v)	solution	IV	green
XX	Cypermethrin\ piperonyl butoxide	0,25 %\ 1,25 % (all m/v)	dip	IV	green
XX	Cypermethrin\ piperonyl butoxide	0,28 %\ 1,25 % (all m/v)	dip	IV	green
AE	Cypermethrin\ 	0,5 %	aerosol	II	yellow



## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	piperonyl butoxide Cypermethrin\ piperonyl butoxide	2,5 % (all m/v) 0,55 %\ 2,75 % (all m/v)	dip	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,55 %\ 1,75 % (all m/v)	shampoo	IV	green
XX	Cypermethrin\ piperonyl butoxide	0,55 %\ 1,75 % (all m/v)	dip	IV	green
PO	Cypermethrin\ piperonyl butoxide	2 %\ 8 % (all m/v)	pour-on	IV	green
AL	Cypermethrin\ piperonyl butoxide	0,072 %\ 0,328 % (all /L)	shampoo	IV	green
AL	Cypermethrin 90%\ piperonyl butoxide 85%	0,28 %\ 1,25 % (all m/v)	spray (liquid concentrate solution)	IV	green
XX	Cypermethrin 90%\ piperonyl butoxide 85%	0,28 %\ 1,25 % (all m/v)	dip	IV	green
XX	zeta-Cypermethrin	100 g/L	dip	lb	red
PO	zeta-Cypermethrin	25 g/L	pour-on	IV	green
XX	Cyromazine	1 % m/m	seedpremix	IV	green
PO	Cyromazine	10,33 % m/v	pour-on	IV	green
WP	Cyromazine	50 % m/m	wettable powder	IV	green
SC	Cyromazine	500 g/L	suspension concentrate	IV	green
TB	Cythioate	11,54 % m/m	tablet	III	blue
AL	Deltamethrin	0,07 % m/v	shampoo	IV	green
PO	Deltamethrin	0,5 % m/v	pour-on	IV	green
XX	Deltamethrin	18,75 % m/v	dip	lb	red
PO	Deltamethrin	1 % m/v	pour-on	IV	green
AL	Deltamethrin	2,5 % m/v	liquid	IV	green
XX	Deltamethrin	2,5 % m/v	dip	lb	red
TB	Deltamethrin	25 % m/m	tablet	III	blue
AL	Deltamethrin	25 % m/m	spray (tablet)	III	blue
XX	Deltamethrin	5,02 % m/v	dip	lb	red
PO	Deltamethrin\ piperonyl butoxide	0,50 %\ 2,0 % (all m/v)	pour-on	IV	green
XX	Dialkyl dimethylammonium chloride\ alkyl dimethyl benzylammonium chloride	42,5 g\ 27,5 g (all /L)	disinfectant	II	yellow
XX	Diazinon	15 % m/m	collar	IV	green
DP	Diazinon	2 % m/m	dustable powder	IV	green
EC	Diazinon	30 % m/v	emulsifiable concentrate	II	yellow
EC	Diazinon	30 % m/v	dip (injecticidal) (emulsifiable concentrate)	II	yellow
XX	Diazinon	88 % m/v	liquid	II	yellow
EC	Diazinon	30 % m/v	emulsifiable concentrate	II	yellow
TB	Dichlorophen	0,2 g/0,2 g tablet	anthelmintic (tablet)	IV	green
TB	Dichlorophen	86,51 % m/m	anthelmintic (tablet)	IV	green
TB	Dichlorophen	70,81 % m/m	anthelmintic (tablet)	IV	green
AL	Dichlorophen\ chlorocresol\ cypermethrin	0,01 %\ 0,5 %\ 0,01 % (all m/v)	liquid	IV	green

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
AE	Dichlorophen\ cypermethrin\ chlorocresol\ gentian violet	0,015 %\ 0,01 %\ 0,5 %\ 0,15 % (all m/v)	aerosol	II	yellow
AE	Dichlorophen\ propetamphos\ pine oil	1 %\ 0,25 %\ 2,5 % (all m/v)	aerosol	II	yellow
AL	Dichlorophen\ propetamphos\ pine oil	1 %\ 0,25 %\ 3 % (all m/v)	liquid (oil)	IV	green
PO	Dicyclanil (pyrimidinamine)	5 g/100 ml	pour-on	IV	green
SC	Diflubenzuron	250 g/L	suspension concentrate	IV	green
XX	Dodecyldimethylammonium bromide	500 g/L	disinfectant	IV	green
XX	Doramectin\ ethyl oleate\ sesame oil	1 %\ 21,8 %\ to 100 % (all m/v)	anthelmintic (injectable solution)	III	blue
PO	Eprinomectin\ butylated hydroxytoluene	0,5 %\ 0,01 % (all m/v)	pour-on solution	IV	green
AL	Esbiothrin\ permethrin\ piperonyl butoxide	0,1 %\ 1 %\ 1,1 % (all m/v)	shampoo	IV	green
PO	Esfenvalerate\ chlorfenvinphos	15 g\ 6,25 g (all /L)	pour-on for cattle	II	yellow
PO	Esfenvalerate\ chlorfenvinphos	1,71 %\ 0,74 % (all m/m)	pour-on	II	yellow
TB	Febantel\ praziquantel\ pyrantel embonate	150 mg\ 50 mg\ 144 mg (all /tablet)	anthelmintic (tablet)	IV	green
XX	Fenbendazole	10 % m/v	anthelmintic (suspension) (oral drench)	III	blue
XX	Fenbendazole	2,5 % m/v	anthelmintic (liquid)	III	blue
GR	Fenbendazole	222 mg/g	anthelmintic (granules)	IV	green
XX	Fenbendazole	4,0 % m/m	anthelmintic (powder)	IV	green
XX	Fenbendazole	5 % m/v	anthelmintic (liquid)	III	blue
XX	Fenbendazole	5 % m/v	anthelmintic (suspension)	III	blue
GR	Fenbendazole\ nicosamide	10 %\ 25 % (all m/m)	anthelmintic (granules)	IV	green
GR	Fenbendazole\ nicosamide	500 mg\ 1 250 mg (all /5 g)	anthelmintic (granules)	IV	green
TB	Fenbendazole\ praziquantel	500 mg\ 50 mg (all /tablet)	anthelmintic (tablet)	IV	green
XX	Fenbendazole\ rafoxanide	50 mg\ 50 mg (all /ml)	anthelmintic (liquid)	III	blue
SA	Fenthion	20 % m/v	spot-on	III	blue
SA	Fenthion-methyl	10 % m/v	spot-on	IV	green
SA	Fenthion-methyl	20 % m/v	spot-on	III	blue
XX	Fenthion-methyl	20 % m/v	liquid	II	yellow
SA	Fenthion-methyl\ diprolene glycol monomethyl ether	10 %\ 87,85 % (all m/v)	spot-on	IV	green

## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
AL	Fipronil	0,25 % m/v	spray (solution)	IV	green
SA	Fipronil	100 g/l	spot-on	II	yellow
SA	Fipronil\ S-Methoprene	10 g\ 12 g (all /100 ml)	spot-on	II	yellow
PO	Fluazuron(benzoylphenyl urea)	25 g/L	pour-on	IV	green
XX	Flubendazole	1,666 % m/m	anthelmintic (premix)	IV	green
EC	Flufenoxuron	10 % m/v	liquid	IV	green
DC	Flufenoxuron	2,25 % m/v	water dispersible concentrate	IV	green
AE	Flumethrin	0,2 % m/v	aerosol	III	blue
PO	Flumethrin	1 % m/v	pour-on	IV	green
AL	Flumethrin	2 % m/v	liquid	IV	green
EC	Flumethrin	2,0 g/100 ml	emulsifiable concentrate	II	yellow
XX	Flumethrin	2 % m/v	dip	II	yellow
EC	Flumethrin\ piperonyl butoxide (91%)	3,3 %\ 10,9 % (all m/v)	emulsifiable concentrate	II	yellow
XX	Glutaraldehyde	10 g/L	teat dip	II	yellow
XX	Glutaraldehyde	10 g/L	liquid	II	yellow
AL	Glutaraldehyde	0,05 g/L	teat spray (solution)	IV	green
XX	Glutaraldehyde	100 g/l	disinfectant solution	II	yellow
XX	Glutaraldehyde	20 % m/v	liquid	II	yellow
XX	Glutaraldehyde	20 % m/m	disinfectant	II	yellow
XX	Glutaraldehyde	50 g/L	solution	II	yellow
XX	High boiling coal tar acids\ chlorinated xylenols\ dodecyl benzene sulfonic acid\ organic acid\ water	20 %\ 20 %\ 36 %\ 20 %\ to 100 % (all m/v)	liquid	II	yellow
XX	High boiling coal tar acids\ meta-cresol\ dodecyl benzene sulfonic acid	40,5 %\ 5 %\ 24 % (all m/v)	liquid	II	yellow
XX	2-(Hydroxymethyl)-2-nitro-1,3-propanediol\ alkyl (C12-67 %, C14-25 %, C16-7 %, C8, C10, C18-1 %) dimethyl benzyl ammonium chloride\ formaldehyde	19,2 %\ 3,08 %\ 2,28 %	disinfectant	II	yellow
SA	Imidacloprid	10 % m/v	spot-on	IV	green
TB	Imidacloprid	10 % m/m	tablet and topical combination	IV	green
AL	Iodine	0,15% m/m	teat dip solution	III	blue
XX	Iodine	1 % m/v	liquid concentrate	III	blue
XX	Iodine	3,8 % m/v	teat dip	III	blue
XX	Iodine	6,6 % m/v	teat dip	III	blue
XX	Iodine	6 % m/m	teat dip	III	blue
XX	Iodine\ lanolin	6 %\ 30 % (all m/v)	teat dip	III	blue
XX	Iodine\ lanolin\ glycerine	6 %\ 6 %\ 24 % (all m/m)	concentrate	III	blue

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Iodine (potassium iodide)	50 mg/ml	solution	III	blue
XX	Iodine\ potassium iodide	10 %\ 6 % (all m/v)	antiseptic solution	III	blue
XX	Iodine\ potassium iodide	2,5 %\ 2,5 % (all m/v)	solution	III	blue
XX	Iodine prills\ phosphoric acid	2,8 %\ 28 % (all m/m)	liquid concentrate	III	blue
XX	Iodine\ zinc oxide BP	0,19 %\ 5 % (all m/m)	ointment	III	blue
PO	Ivermectin	0,05 % m/v	anthelmintic (pour-on)	III	blue
XX	Ivermectin	0,08 % m/v	anthelmintic (liquid)	III	blue
XX	Ivermectin	0,1 % m/v	anthelmintic (oral)	III	blue
PO	Ivermectin	0,5 % m/v	anthelmintic (pour-on)	III	blue
XX	Ivermectin	0,61 % m/m	anthelmintic (premix)	IV	green
XX	Ivermectin	0,8 % m/v	anthelmintic (liquid)	III	blue
XX	Ivermectin	1,34 % m/m	anthelmintic (gel)	III	blue
PA	Ivermectin	1,87 % m/m	anthelmintic (paste)	III	blue
TB	Ivermectin	10 mg/1,2 g tablet	anthelmintic (tablet)	IV	green
XX	Ivermectin	10 mg/ml	anthelmintic (injectable solution)	III	blue
PO	Ivermectin	1 % m/v	anthelmintic (pour-on)	III	blue
XX	Ivermectin	1 % m/v	anthelmintic (injection)	III	blue
XX	Ivermectin	2,011 % m/m	anthelmintic (capsule)	IV	green
XX	Ivermectin	3,15 % m/v	anthelmintic (injection)	III	blue
TB	Ivermectin	22 % m/m	anthelmintic (bolus)	IV	green
XX	Ivermectin	4,022 % m/m	anthelmintic (capsule)	IV	green
XX	Ivermectin\ clorsulon	1 %\ 10 % (all m/v)	anthelmintic (injection)	III	blue
PA	Ivermectin\ praziquantel	1,2 g\ 15 g (all /100 ml)	anthelmintic (paste)	III	blue
XX	Lactic acid\ dodecyl benzene sulfonic acid, linear	8,9 %\ 1,6 % (all m/v)	teat dip	III	blue
XX	Levamisole	3,0 % m/v	anthelmintic (liquid)	III	blue
PO	Levamisole	20 % m/v	anthelmintic (pour-on)	III	blue
XX	Levamisole	6,6 % m/v	anthelmintic (liquid)	III	blue
TB	Levamisole	10 % m/m	anthelmintic (tablet)	IV	green
SP	Levamisole	99 % m/m	anthelmintic (soluble powder)	IV	green
XX	Levamisole hydrochloride	2,56 % m/v	anthelmintic (oral solution)	III	blue
XX	Levamisole hydrochloride	15 % m/v	anthelmintic (injection)	III	blue
XX	Levamisole hydrochloride	2,5 % m/v	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride	2,56 % m/v	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride	25 % m/v	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride	3 % m/v	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride	4 % m/v	anthelmintic (injection)	III	blue
TB	Levamisole hydrochloride	9,44 % m/m	anthelmintic (tablet)	IV	green
XX	Levamisole hydrochloride	99 % m/m	anthelmintic (soluble	IV	green

## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Levamisole hydrochloride	99,997 % m/m	powder) anthelmintic (powder)	IV	green
XX	Levamisole hydrochloride\ oxyclozanide	2,5 %\ 3,4 % (all m/v)	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride\ praziquantel	37,5 mg\ 18,8 mg (all /ml)	anthelmintic (oral drench)	III	blue
XX	Levamisole hydrochloride\ rafoxanide	2,5 %\ 2,5 % (all m/v)	anthelmintic (liquid)	III	blue
XX	Levamisole hydrochloride\ rafoxanide	3 %\ 3 % (all m/v)	anthelmintic (oral drench)	III	blue
XX	Levamisole phosphate\ toxoid-clostridial antigens	6,8 % m/v	anthelmintic (injection)	III	blue
XX	Levamisole phosphate\ toxoid-clostridial antigens	68 mg/ml	vaccine/anthelmintic combination	III	blue
XX	Levamisole\ rafoxanide	2,5 %\ 2,5 % (all m/v)	anthelmintic (liquid)	III	blue
XX	d-Limonene\ piperonyl butoxide\ pyrethrins natural (25%)	1,2 %\ 0,49 %\ 0,19 % (all m/m)	shampoo	III	blue
AL	d-Limonene\ piperonyl butoxide (10%)\ pyrethrins natural (25%)	2 %\ 1 %\ 0,8 % (all m/m)	spray	IV	green
XX	d-Limonene\ piperonyl butoxide\ pyrethrins natural (25%)	69,2 %\ 7,5 %\ 1,5 % (all m/m)	dip	IV	green
XX	Lufenuron	70 g/L	liquid (ectoparasiticide)	III	blue
TB	Lufenuron	67,8 mg/tablet	tablet (ectoparasiticide)	IV	green
TB	Lufenuron	204,9 mg/tablet	tablet (ectoparasiticide)	IV	green
TB	Lufenuron	409,8 mg/tablet	tablet (ectoparasiticide)	IV	green
XX	Lufenuron (acylurea)	40 mg/1 ml syringe	injection (ectoparasiticide)	III	blue
XX	Lufenuron (acylurea)	80 mg/1 ml syringe	injection (ectoparasiticide)	III	blue
GR	Mebendazole	10 % m/m	anthelmintic (granules)	IV	green
XX	Mebendazole	5 % m/v	anthelmintic (liquid)	III	blue
XX	Mebendazole	20 mg/ml	anthelmintic (liquid)	III	blue
EC	Mercaptothion	50 % m/v	emulsifiable concentrate	III	blue
SA	RS Methoprene\ ethylbutylacetylaminopropionate	15 %\ 70 % (all m/m)	spot-on	IV	green
SA	RS-Methoprene\ permethrin 25:75 (cis:trans)	15 %\ 65 % (all m/m)	spot-on	IV	green
TB	Milbemycin\ lufenuron	2,3 mg\ 46 mg (all /150 mg tablet)	tablet	IV	green
TB	Milbemycin\ lufenuron	11,5 mg\ 230 mg (all /750 mg tablet)	tablet	IV	green
TB	Milbemycin\ lufenuron	23 mg\ 460 mg (all /1500 mg tablet)	tablet	IV	green

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
TB	Milbemycin\ lufenuron	5,75 mg\ 115 mg (all /500 mg tablet)	tablet	IV	green
XX	Morantel citrate monohydrate	5,8 % m/v	anthelmintic (liquid)	III	blue
XX	Moxidectin	0,1 % m/v	anthelmintic (oral solution)	III	blue
PO	Moxidectin	0,105 % m/v	anthelmintic (pour-on)	III	blue
XX	Moxidectin	0,25 % m/v	anthelmintic (injection)	III	blue
XX	Moxidectin	0,5 % m/v	anthelmintic (injection)	III	blue
XX	Moxidectin	1 % m/v	anthelmintic (injection)	III	blue
PC	Moxidectin	1,987 % m/m	anthelmintic (gel for oral dosing)	III	blue
XX	Moxidectin and antigens	0,25 % m/v	anthelmintic (injection and vaccine)	III	blue
PC	Moxidectin\ praziquantel	2 %\ 12,5 % (all m/v)	anthelmintic (gel for oral dosing)	III	blue
XX	Niclosamide	12 % m/v	anthelmintic (drench)	III	blue
XX	Niclosamide	20 % m/v	anthelmintic (liquid)	III	blue
XX	Niclosamide	20 % m/v	anthelmintic (oral suspension)	III	blue
XX	Niclosamide	20 % m/m	anthelmintic (wetable powder)	IV	green
TB	Niclosamide	50 mg/tablet	anthelmintic (tablet)	IV	green
XX	Niclosamide	75 % m/m	anthelmintic (powder)	IV	green
XX	Niclosamide\ isopropanol	20 % m/m\ 20 % v/v	anthelmintic (oral suspension)	III	blue
TB	Niclosamide\ levamisole hydrochloride	73 %\ 3,64 % (all m/m)	anthelmintic (tablet)	IV	green
XX	Niclosamide\ pyrantel pamoate	6,25 %\ 3,0 % (all m/m)	anthelmintic (powder)	IV	green
XX	Niclosamide\ pyrantel pamoate	12,5 %\ 1,5 % (all m/m)	anthelmintic (powder)	IV	green
TB	Nitenpyram (nitroenamine)	57 mg/500 mg tablet	tablet	IV	green
TB	Nitenpyram	11,4 mg/100 mg tablet	tablet	IV	green
TB	Nitroscanate	500 mg/tablet	anthelmintic (tablet)	IV	green
TB	Nitroscanate	100 mg/tablet	anthelmintic (tablet)	IV	green
TB	Nitroscanate\ starch BP\ microcrystalline cellulose\ sodium starch glycollate BP\ sodium lauryl sulfate BP\ magnesium stearate BP	100 mg\ 4 mg\ 12,65 mg\ 10 mg\ 1,3 mg\ 0,65 mg (all /128,6 mg tablet)	anthelmintic (tablet)	IV	green
TB	Nitroscanate\ starch BP\ microcrystalline cellulose\ sodium starch glycollate BP\ sodium lauryl sulfate BP\ magnesium stearate BP	500 mg\ 20 mg\ 70 mg\ 50 mg\ 6,5 mg\ 6,5 mg (all /653 mg tablet)	anthelmintic (tablet)	IV	green

## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Nitroxylin	34 % m/v	anthelmintic (injection)	III	blue
TB	Oxantel pamoate\ praziquantel\ pyrantel pamoate	545 mg\ 50 mg\ 140 mg (all /tablet)	anthelmintic (tablet)	IV	green
TB	Oxantel pamoate\ praziquantel\ pyrantel pamoate	560 mg\ 50 mg\ 145 mg (all /1 g)	anthelmintic (tablet)	IV	green
XX	Oxfendazole	2,265 % m/v	anthelmintic (liquid)	III	blue
PO	Oxfendazole	7,5 % m/v	anthelmintic (pour-on)	III	blue
XX	Oxfendazole	9,06 % m/v	anthelmintic (liquid)	III	blue
XX	Oxyclozanide	3,4 % m/v	anthelmintic (liquid)	III	blue
EC	Permethrin (pyrethroid)	250 g/L	emulsifiable concentrate	II	yellow
AL	Permethrin	2 % m/v	spray (solution)	IV	green
SA	Permethrin	65 % m/v	spot-on	II	yellow
AL	Permethrin (pyrethroid) (cis:trans 25:75)	2,5 g/L	liquid	IV	green
AL	Permethrin (cis:trans 25:75)	2,5 g/L	spray (ready to use)	IV	green
AL	Permethrin\ esbiothrin\ piperonyl butoxide	1 %\ 0,35 %\ 1,5 % (all m/v)	spray	IV	green
XX	Permetrin\ esbiothrin\ piperonyl butoxide\ ethyl 4-bis (hydroxypropyl) amino benzoate	0,4 %\ 0,3 %\ 5,0 %\ 2,5 % (all m/m)	ointment	IV	green
XX	Permethrin\ pyrethrum\ piperonyl butoxide	0,4 %\ 0,4 %\ 5 % (all m/m)	ointment for external application	IV	green
PO	Permethrin\ pyriproxyfen	40 %\ 0,3 % (all m/v)	pour-on	II	yellow
AL	Permethin\ pyriproxyfen	2 % \ 0,02 % (all m/v)	spray	IV	green
EC	Phosmet	11,6 % m/v	dip (emulsifiable concentrate)	IIb	red
XX	Phosphoric acid\ iodine	14,5 %\ 1,5 % (all m/v)	liquid	III	blue
XX	Phoxim	50 % m/v	liquid	II	yellow
XX	Piperazine adipate	100 % m/m	anthelmintic (powder)	IV	green
TB	Piperazine adipate	288 mg/tablet	anthelmintic (tablet)	IV	green
XX	Piperazine citrate	100 % m/m	anthelmintic (capsule)	IV	green
XX	Piperazine citrate	12,5 % m/v	anthelmintic (liquid)	III	blue
XX	Piperazine citrate	18,75 % m/v	anthelmintic (liquid)	III	blue
XX	Piperazine citrate	625 mg/5 ml	anthelmintic (syrup)	III	blue
XX	Piperazine citrate	938 mg/100 ml	anthelmintic (liquid)	III	blue
XX	Piperazine citrate	938 mg/5 ml	anthelmintic (liquid)	III	blue
TB	Piperazine citrate	94,22 % m/m	anthelmintic (tablet)	IV	green
XX	Piperazine dihydrochloride	64,5 % m/m	anthelmintic (powder)	IV	green
XX	Piperazine dihydrochloride (100%)	53 % m/m	anthelmintic (soluble powder)	IV	green
AL	Polyvinylpyrrolidone-iodine	3 % m/m	wound spray	IV	green
XX	Praziquantel	2,5 % m/v	anthelmintic (liquid)	III	blue

A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Praziquantel	3,75 % m/v	anthelmintic (oral suspension)	III	blue
TB	Praziquantel	5 mg/tablet	anthelmintic (tablet)	IV	green
TB	Praziquantel	7,58 % m/m	anthelmintic (tablet)	IV	green
SA	Praziquantel USP	20 mg/500 mg	anthelmintic (spot-on)	III	blue
TB	Praziquantel\ febantel\ pyrantel embonate	50 mg\ 150 mg\ 144 mg (all /tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ febantel\ pyrantel embonate	175 mg\ 875 mg\ 504 mg (all /tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ febantel\ pyrantel embonate	15 mg\ 75 mg\ 43,5 mg (all /198 mg tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ fenbendazole	8,34 %\ 83,3 % (all m/m)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ fenbendazole	50 mg\ 500 mg (all /tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ pyrantel embonate\ febantel	50 mg\ 144 mg\ 150 mg (all /660 mg tablet)	anthelmintic (tablet and topical combination)	IV	green
TB	Praziquantel\ pyrantel embonate	20 mg\ 230 mg (all /339 mg tablet)	anthelmintic (tablet and topical combination)	IV	green
PA	Praziquantel\ pyrantel pamoate	2,5 %\ 29,5 % (all m/v)	anthelmintic (paste)	III	blue
TB	Praziquantel\ pyrantel pamoate	20 mg\ 230 mg (all /tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ pyrantel pamoate	75 mg\ 200 mg (all /600 mg tablet)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ pyrantel pamoate\ oxantel pamoate	175 mg\ 490 mg\ 1 907 mg (all m/m)	anthelmintic (tablet)	IV	green
TB	Praziquantel\ pyrantel pamoate\ oxantel pamoate	50 mg\ 140 mg\ 545 mg (all /1 g tablet)	anthelmintic (tablet)	IV	green
GS	Propetamphos	0,15 % m/m	grease	IV	green
DP	Propoxur	1,5 % m/m	powder	IV	green
DP	Propoxur	1 % m/m	dustable powder	IV	green
XX	Propoxur	9,4 % m/m	collar	III	blue
AL	Propoxur\ triethanolamine alkylbenzene sulfonate\ sodium alkylbenzene sulfonate	0,122 g\ 44,36 g\ 11,09 g (all /100 ml)	shampoo	IV	green
XX	Pyrantel pamoate	50 mg/100 ml	anthelmintic (suspension)	III	blue
PA	Pyrantel pamoate	43,9 % m/m	anthelmintic (oral paste)	III	blue
XX	Pyrantel pamoate USP\ 	1,44 g\ 	anthelmintic (oral suspension)	III	blue



## A.2 (continued)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
PA	febantel INN Pyrantel pamoate\ niclosamide	1,5 g (all /100 ml) 8 %\ 25 % (all m/v)	anthelmintic (oral paste)	III	blue
TB	Pyrantel pamoate (100%)\ oxantel pamoate\ praziquantel	15,61 %\ 59,279 %\ 5,458 % (all m/m)	anthelmintic (tablet)	IV	green
XX	Pyrantel pamoate\ oxantel pamoate\ praziquantel	2,383 %\ 9,05 %\ 0,833 % (all m/m)	anthelmintic (palatable cube)	IV	green
TB	Pyrantel pamoate\ praziquantel	20 mg\ 5 mg (all / 200 mg tablet)	anthelmintic (tablet)	IV	green
TB	Pyrantel pamoate\ praziquantel	20 mg\ 230 mg (all /429,29 mg tablet)	anthelmintic (tablet)	IV	green
TB	Pyrantel pamoate USP\ praziquantel USP	230 mg\ 20 mg (all /339 mg tablet)	anthelmintic (tablet)	IV	green
DP	Pyrethrins	0,25 % m/m	dustable powder	IV	green
AL	Pyrethrins\ (S)-methoprene\ piperonyl butoxide\ N-octyl bicycloheptene dicarboximide	1,8 g\ 2,0 g\ 3,6 g\ 6,0 g (all /L)	spray	IV	green
AL	Pyrethrum\ piperonyl butoxide	0,11 %\ 1,1 % (all m/v)	shampoo	IV	green
AL	Pyrethrum\ piperonyl butoxide	0,5 %\ 2 % (all m/v)	shampoo	IV	green
AL	Pyrethrins\ piperonyl butoxide\ glycerine	0,12 %\ 1 %\ 2 % (all m/v)	shampoo fluid	IV	green
XX	Quin thiophos	50 % m/v	dip	IIb	red
XX	Rafoxanide	3 % m/v	anthelmintic (oral drench)	III	blue
XX	Rafoxanide\ levamisole	3 %\ 3 % (all m/v)	anthelmintic (oral solution)	III	blue
XX	Rafoxanide\ levamisole hydrochloride	22,5 mg\ 15 mg (all /ml)	anthelmintic (drench)	III	blue
XX	Resorantel	25 % m/v	anthelmintic (suspension)	III	blue
XX	Resorantel	75 % m/v	anthelmintic (liquid)	III	blue
XX	Ricobendazole	10 % m/v	anthelmintic (injection)	III	blue
SA	Selamectin	60 mg/ml	spot-on	IV	green

A.2 (concluded)

Croplife abbreviation	Active ingredients	Concentrations	Description	Danger group	Colour code
XX	Triazophos	40 % m/m	dip	II	yellow
XX	Trichlorphon	5 % m/m	cream	II	yellow
XX	Trichlorphon	20 % m/v	anthelmintic (oral liquid)	III	blue
SP	Trichlorphon	50 % m/m	powder	III	blue
XX	Triclabendazole	10 % m/v	anthelmintic (drench suspension)	III	blue
XX	Triclabendazole	240 g/l	anthelmintic (drench suspension)	III	blue
XX	Triclabendazole\ levamisole hydrochloride	50 g\ 37,5 g (all /L)	anthelmintic (drench suspension)	III	blue
XX	Triclabendazole\ levamisole hydrochloride	120 g\ 75 g (all /L)	anthelmintic (drench suspension)	III	blue
SC	Triflumuron	480 g/L	suspension concentrate	IV	green

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## Bibliography

- [1] *Guidelines for the RSA classification code of agricultural and stock remedies and associated labelling practices*. Halfway House: AVCASA, 1991.

NOTE After the publication of the guidelines, the name AVCASA was changed to “Crop Protection and Animal Health Association” but the acronym “AVCASA” was retained.

- [2] *International Programme on Chemical Safety (IPCS)*
- [3] *The WHO recommended classification of pesticides by hazard and guidelines to classification*, Geneva, Switzerland: World Health Organization, 2000-2001.
- [4] *Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947)*.

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