

**BELIZE:**

**STATUTORY INSTRUMENT**

**REGULATIONS** made by the Minister of Agriculture, Fisheries and Cooperatives in exercise of the powers conferred upon him by section 15 of the Pesticides Control Act, Chapter 181B of the Laws of Belize, Revised Edition 1980-1990, and all other powers thereunto him enabling, and after consultation with the Pesticides Control Board.

(Gazetted.....2003.)

Short title.

1. These Regulations may be cited as the **REGISTERED AND RESTRICTED PESTICIDES (REGISTRATION) (AMENDMENT) REGULATIONS, 2003,** and shall be read and construed as one with the Registered and Restricted Pesticides (Registration) Regulations, 1995, which are hereinafter referred to as the principal Regulations.

SI 77/1995.

Amendment of Regulation 2.

2. Regulation 2 of the principal Regulations is hereby amended by the addition of the following definitions in their proper alphabetical order:-

"domestic use pesticide" means a general use pesticide intended for use in and around the house and home garden, sold in retail outlets selling groceries and household goods under a licence for that purpose issued by the Board;

"full registration" means registration of a pesticide by trade name and formulation according to Regulation 4 and in accordance with the data requirements of Regulation 5 of these Regulations;

"harmonized regional guidelines" means those guidelines relevant to pesticides control, harmonized for implementation in the region of Central America;

"minor-use authorization" means the authorization granted by the Board for the importation and use of a locally unavailable pesticide in a specified amount by a specific individual or company;

"pest exterminator" means a person or company contracted or employed to control

pests infesting or causing damage to buildings or premises that may be dwellings, places of work, industrial premises or storage facilities and who may have to take action to control such pests in the immediate vicinity of affected buildings;

"summary details" means trade name, formulation, active ingredients and user-oriented information of pesticides submitted for registration;

"trade applicator" means a person engaged in the use of pesticides as a trade or profession, and who has been certified by the Board as such.'

Amendment of Regulation 5.

3. Regulation 5 of the principal Regulations is hereby amended by adding the following immediately after subregulation (2):-

"(3) The registration of domestic use pesticides is exempt from the requirements in subregulations (1) and (2) above.

(4) Applications for registration of domestic use pesticides are to be

accompanied by the data specified in Schedule III.

Repeal and replacement of Regulation 7.

4.Regulation 7 of the principal Regulations is hereby repealed and replaced by the following:-

"7.(1) The following fee(s) shall be payable for registration of a pesticide, namely:-

- (a) non-refundable application fee for full or provisional registration of a pesticide.....\$300.00
- (b) full or provisional registration of a pesticide.....\$700.00
- (c) re-registration of a pesticide already in the Register of Pesticides .....\$700.00
- (d) registration of a domestic-use pesticide..... \$200.00
- (e) re-registration of a domestic use pesticide..... \$100.00

- (f) experimental permit..... \$100.00
- (g) minor use authorization  
(Agricultural/Industrial)...\$100.00
- (h) minor use authorization  
(Domestic)..... \$ 25.00
- (i) re-issue of Registration  
Certificate ..... \$25.00

Amendment of  
Regulation 8.

5. Regulation 8 of the principal Regulations is hereby amended by the addition of the following immediately after sub regulation (1):-

"(2) Applications for re-registration of a pesticide must be submitted within three months of the expiry date and shall be accompanied by any additional data that may be required by the Board.

(3) If an application for re-registration of a pesticide is not submitted by the date of expiry, the application shall be presumed to be a new application and must fulfill all

requirements as they pertain to full registration.

Amendment of  
Regulation 9.

6. Regulation 9 of the principal Regulations is hereby amended by the addition of the following immediately after sub regulation (2):-

" (3) (a) The name and address of the applicant and summary details of the pesticide for every registration of a pesticide shall be published in two consecutive issues of the *Gazette* prior to the granting of a Certificate of Registration by the Board.

(b) A period of three weeks shall be allocated for third parties to submit objections to the registration of a pesticide and any objections should state the scientific reasons and grounds for the objections, stating precisely and clearly the points objected.

(c) After notification of the objection, the interested party shall be granted a period of fifteen days to

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respond to the objection, after which the Board is to arrive at a final decision in regard to the registration of the pesticide in question.

(d) On receipt of an objection in writing to the registration of a pesticide, the Board reserves the right to grant provisional registration for a period not exceeding one year in accordance with Regulation 10, pending investigation of the objection.

(4) A trade applicator, pest exterminator, or other pesticide user who wishes to register a pesticide for his own use but cannot meet the requirements of Regulation 5 may apply for minor-use authorization by submitting:-

- (a) summary details of the product;
  - (b) description of pest problem and reasons why pesticides already registered are not suitable;
  - (c) quantity of pesticide required;
- and

(d) a sample of the label and other-user oriented information of the product he wishes to use.

(5) In the case of minor-use authorization granted on an application under subregulation (4) above:-

(a) the product will only be used by the person concerned and will not be sold or otherwise alienated;

(b) the authorization shall be valid for one consignment only;

(c) the product must be registered in the country of origin."

Amendment of  
Regulation 10.

7. Regulation 10 of the principal Regulations is hereby repealed and replaced by the following:-

"10.(1) Where the Board is not fully satisfied that a pesticide shall be granted full registration, it may grant provisional registration for a period not exceeding one year, provided that it is satisfied that:-

- (a) the pesticide does not pose unreasonable adverse effects to health and the environment;
  - (b) the product is appropriately formulated for use;
  - (c) the product is of adequate quality;
  - (d) the product may be used safely in Belize under such conditions as the Board may specify;
  - (e) products available in Belize under full registration above are not suitable for the purpose specified;
  - (f) the appropriate fee has been paid.
- (2) In the case of provisional registration granted after an objection, the pesticide may be granted full registration at or before the expiry date, provided

the Board is satisfied that the pesticide should be registered."

Addition of  
new Regulation  
10A.

8. The principal Regulations are hereby amended by the addition of a new Regulation 10A immediately after Regulation 10 as follows:-

"Importation of  
unavailable  
pesticides.

(10A) The Minister of Agriculture may, after consultation with the Board, under conditions of duly declared emergency, authorize the importation and use of a pesticide not registered in the country, provided that there is no other alternative among locally registered products."

Repeal and  
replacement of  
Schedules.

9. Schedules I and II of the principal Regulations are hereby repealed and replaced by the corresponding Schedules to these Regulations.

Commencement.

10. These Regulations shall come into force on the \_\_\_\_\_ day of \_\_\_\_\_, 2003.

**MADE** by the Minister of Agriculture, Fisheries and Cooperatives this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

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(DANIEL SILVA)

**MINISTER OF AGRICULTURE, FISHERIES  
AND COOPERATIVES.**

**[Regulation 5(1)]****Data required for the Registration of Pesticides****For Technical Grade Pesticides (Six copies in English)****1. IDENTITY**

- 1.1 Trade name.
- 1.2 Manufacturer, country of origin and source.
- 1.3 Common name: proposed or accepted by ISO.
- 1.4 Synonyms.
- 1.5 Chemical name as proposed or accepted by IUPAC or, in its absence, by another internationally recognized organization.
- 1.6 Empirical formula and molecular weight.
- 1.7 Structural formula.
- 1.8 Chemical family.
- 1.9 Degree of Purity (Concentration of the Active Ingredient).
- 1.10 Isomers (when applicable).
- 1.11 Outstanding and non-outstanding impurities at concentrations above 1 g x Kg of technical material.
- 1.12 Additives (identify when applicable).

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**2. PHYSICAL AND CHEMICAL PROPERTIES**

- 2.1 Appearance
  - 2.1.1 Physical state
  - 2.1.2 Color
  - 2.1.3 Odor
- 2.2 Melting point in °C, when applicable
- 2.3 Boiling point.
- 2.4 Density.
- 2.5 Vapor pressure, at temperatures between 10 and 30°C, when applicable.
- 2.6 Ultraviolet, infrared, magnetic resonance spectrums and mass spectrometry.
- 2.7 Solubility in water at temperatures between 10 and 30°C, when applicable.
- 2.8 Solubility of the active ingredient in various solvents, at temperatures between 10 and 30°C.
- 2.9 Partition coefficient between n-octanol/water (pH and temperature), if this has been determined.
- 2.10 Flash point.
- 2.11 Surface tension (when applicable).
- 2.12 Explosive properties.
- 2.13 Oxidation properties.
- 2.14 Reactivity with container material.
- 2.15 Viscosity (when applicable).
- 2.16 pH.
- 2.17 Hydrolysis rate under stated relevant conditions, when applicable.

- 2.18 Minimum and maximum active ingredient content, expressed in percentages by weight (w/w) or by volume (w/v).
- 2.19 Other pertinent properties.

### 3. USE-RELATED ASPECTS

- 3.1 Mode of action.
- 3.2 Biochemical form of action of the active ingredient on pests.

### 4. TOXIC EFFECT ON MAMMALIAN SPECIES

- 4.1 Acute toxicity
  - 4.1.1 Average acute oral toxicity in rats in mg/kg of body weight.
  - 4.1.2 Average acute dermal toxicity in rats and/or rabbits in mg/kg of body weight.
  - 4.1.3 Average acute lethal concentration by inhalation in mg/l or mg/m<sup>3</sup>.
  - 4.1.4 Eye irritation (this study shall be omitted when the materials under analysis are corrosive).
  - 4.1.5 Sensitivity.
- 4.2 Subchronic toxicity (13 to 90 days)
  - 4.2.1 Average subchronic oral toxicity in rats by mg/kg of body weight.

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- 4.2.2 Average subchronic dermal toxicity in rats and/or rabbits in mg/kg of body weight.
  - 4.2.3 Eye irritation (this study shall be omitted when the materials under analysis are corrosive).
- 4.3 Chronic toxicity in minimum of two species.
- 4.3.1 Average chronic oral lethal dosage in rats in mg/kg of body weight
  - 4.3.2 Average chronic dermal lethal dosage in rats and/or rabbits in mg/kg of body weight.
  - 4.3.3 Admissible daily intake.
- 4.4 Oncogenicity.
- 4.5 Mutagenicity (*in vivo* and *in vitro*).
- 4.6 Toxicological compatibility, potentiation, synergism, additive potential (for mixes of active ingredients), when applicable.
- 4.7 Effect on reproduction.
- 4.7.1 Teratogenecity.
  - 4.7.2 Study on, at least, two mammalian generations.
- 4.8 Metabolism in mammals.
- 4.8.1 Oral and dermal administration studies.
    - 4.8.1.1 Absorption.
    - 4.8.1.2 Distribution.
    - 4.8.1.3 Excretion.

- 4.8.2 Explanation of the metabolic routes.
- 4.9 Mandatory medical information.
  - 4.9.1 Diagnosis and symptoms of intoxication.
  - 4.9.2 Proposed treatment.
    - 4.9.1.1 First aid.
    - 4.9.1.2 Medical Treatment.
- 4.10 Additional studies (when applicable)
  - 4.10.1 Studies on neurotoxicity (when available)
  - 4.10.2 Special justified studies
- 4.11 Available complementary medical information.
  - 4.11.1 Intoxication diagnosis
    - 4.11.1.1 Observations in clinical, accidental and intentional injury cases.
    - 4.11.1.2 Observations from epidemiological studies.
    - 4.11.1.3 Observations on allergies.

## 5. TOXIC EFFECTS ON OTHER SPECIES

- 5.1 Effects on birds.
  - 5.1.1 Acute oral toxicity in pheasants, quail, wild ducks or other validated species.
  - 5.1.2 Short-term toxicity (8-day study on one species) in pheasant, quail, wild duck or other validated species.
  - 5.1.3 Effects on the reproduction of pheasants, quails, wild ducks or other validated species (when applicable).

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- 5.1.4 Special studies on domestic animals (when justified).
  - 5.2 Effects on aquatic organisms.
    - 5.2.1 Acute toxicity for fish, rainbow trout, carp or other validated species (particularly hot-water species).
    - 5.2.2 Chronic toxicity in fish, rainbow trout, carp or other validated species (hot-water species)
    - 5.2.3 Effects on the reproduction and growth rate of fish, rainbow trout, carp and other validated species (hot water) (when applicable).
    - 5.2.4 Bioaccumulation in fish, rainbow trout, carp, and other validated species (when applicable).
    - 5.2.5 Acute toxicity in *Daphnia magna*, when applicable.
    - 5.2.6 Chronic studies on *Daphnia magna*, when applicabl.
    - 5.2.7 Reproduction rate in *Daphnia magna*, when applicable.
    - 5.2.8 Growth rate in *Daphnia magna*, when applicable.
    - 5.2.9 Effect on the growth of *Selenastrum capricornutum* algae or another validated species.
  - 5.3 Effects on organisms other than the control organism.
    - 5.3.1 Acute toxicity in bees, oral and by contact.
    - 5.3.2 Toxicity in beneficial arthropods (example: predators)
    - 5.3.3 Toxicity in earth worms. *Eisetia foetida* or other validated species.
    - 5.3.4 Toxicity in soil microorganisms (nitrifiers) (when applicable)
  - 5.4 Other studies (when applicable)
  - 6. **RESIDUES IN TREATED PRODUCTS**
    - 6.1 Identification of the products of degradation and the reaction of metabolites in plants or treated products.
    - 6.2 Behavior of the residues of the active substance and its metabolites from application to harvest, when relevant. Absorption, distribution or conjugation with the plant ingredients and product dissipation in the environment.
    - 6.3 Data on residues, obtained from controlled tests.

6.4 Maximum residue limits set for recommended crops. When none exist, data on residues obtained from protocolized tests according to international standards (FAO Directives) must be filed.

7. **EFFECT ON THE ABIOTIC ENVIRONMENT**

7.1 Behavior in the soil. Data on 3 types of soil patterns.

7.1.1 Degradation: rates and channels (up to 90%), including the identification of:

7.1.1.1 Intervening processes

7.1.1.2 Metabolites and the products of degradation

7.1.1.3 Adsorption and desorption, and the mobility of the active substance and, if relevant, of its metabolites.

7.1.2 Magnitude and nature of the remaining residues.

7.2 Behavior in water and air.

7.2.1 Rates and channels of degradation in the aquatic environment

7.2.2 Hydrolysis and photolysis (if they are not specified in the physical and chemical properties).

8. **INFORMATION ON SAFETY**

8.1 Procedures for the destruction of active ingredients and for decontamination.

8.2 Possibilities of recovery (if available)

8.3 Possibilities of neutralization.

8.4 Controlled incineration (conditions).

8.5 Water purification (if available).

8.6 Recommended methods and precautions for handling during handling, storage, transportation and in the case of fire.

8.7 In the case of fire, products of reaction and combustion gases.

8.8 Information on personal protective equipment.

8.9 Hazards and precautions for technical grade products.

8.10 Hazards for humans handling the product, indicating the following:

- a) Body organs and systems that are affected.
  - b) Symptoms of acute intoxication by skin, eyes, inhalation.
  - c) Routes of product absorption.
- 8.11 Emergency and first aid procedures in the case of acute intoxication through ingestion, contact or inhalation.
- 8.12 Information on specific antidotes.
- 8.13 Information on storage conditions.
- 8.14 Indication of the type of suitable clothing that should be used for protection during transportation and storage.

## 9. ANALYTICAL METHODS

- 9.1 Analytical method used to determine the purity of the active substance (active technical ingredient).
- 9.2 Analytical methods and standards used to determine the products of degradation, isomers, impurities (with toxicological and ecotoxicological importance).
- 9.3 Analytical method used to determine residues in treated plants, farm products, processed foods, soil and water. The rate of recovery and limits of sensibility to the method will be included.
- 9.4 Analytical methods for the air, animal or human tissues and fluids (when available).
- 9.5 Analytical standards for the pure active ingredient (when asked for by authorities).
- 9.6 Method of confinement:
- 9.6.1 The destruction of remnants of unused technical materials.
  - 9.6.2 The disposal of unusable containers
  - 9.6.3 Handling and disposal of technical material spills.
  - 9.6.4 Decontamination and the final destination of used containers.

**For formulated products, the following additional information is to be attached to the application for registration, with its respective references (six copies in English):**

1. **GENERAL DESCRIPTION**

- 1.1 Name and address of the formulator.
- 1.2 Trade name.
- 1.3 Name of the active ingredient and quality specifications.
- 1.4 Intended use (example: herbicide, insecticide)
- 1.5 Type of formulation (example: wettable powder, emulsifiable concentrate)

2. **COMPOSITION**

- 2.1 Analytical Certificate of Composition
- 2.2 Nature of the other components in the formulation.

3. **PHYSICAL AND CHEMICAL PROPERTIES**

- 3.1 Appearance:
  - 3.1.1 Physical condition.
  - 3.1.2 Color.
- 3.2 Stability during storage (regarding composition and the physical properties related to use).
- 3.3 Relative density.
- 3.4 Inflammability:
  - 3.4.1 For liquids, flash point.
  - 3.4.2 For solids, declare whether or not the product is inflammable
- 3.5 pH
- 3.6 Explosivity.

4. **PHYSICAL PROPERTIES OF THE FORMULATED PRODUCT RELATED TO THEIR USE**

- 4.1 Moisture content (for dispersible powders).
- 4.2 Foaming persistence (for formulations applied in water).
- 4.3 Suspension capabilities of dispersible powders, concentrates in suspension, dispersible and encapsulated granules.
- 4.4 Wet granular analysis (for dispersible powders and

- concentrates in suspension).
- 4.5 Dry granular analysis. Percentage of disintegration of powders in granules and powders.
  - 4.6 Stability of the emulsion (in emulsifiable concentrates).
  - 4.7 Corrosiveness.
  - 4.8 Incompatibility with other products (Example: crop protection products and fertilizer incompatibility)
  - 4.9 Density at 20°C in g/ml (for liquid formulations).
  - 4.10 Flash point (oils and solutions).
  - 4.11 Viscosity (for suspensions and emulsions).
  - 4.12 Sulfonation index (oils).
  - 4.13 Disperson (for dispersable granules).
  - 4.14 Gas emissions (for granules that generate gas).
  - 4.15 Looseness or fluidity (for dry powders).
  - 4.16 Iodine and saponification indexes (for mineral oils).
  - 4.17 Any other property related to use according to the type of formulation.

5. **INFORMATION ON THE APPLICATION OF THE FORMULATED PRODUCT**

- 5.1 Application conditions.
- 5.2 Pests that are controlled.
- 5.3 Conditions under which the product can be used.
- 5.4 Dosage.
- 5.5 Number and timing of applications.
- 5.6 Application methods.
- 5.7 Instructions for use.
- 5.8 Re-entry interval into treated area (when applicable).
- 5.9 Pre-harvest intervals.
- 5.10 Effects on successive crops.
- 5.11 Phytotoxicity and compatibility.
- 5.12 Proposed and approved uses in other countries, especially from the region of Central America.
- 5.13 Trial reports on biological efficacy (if carried out locally, use standard protocols for efficacy trials).
- 5.14 Resistance (information on the development of resistance and monitoring strategies), when available.

6. **PROPOSED LABELLING AND PACKAGING FOR THE FORMULATED PRODUCT**

*Any container or package that contains formulated pesticides, technical products or adjuvants must carry a safety seal on the cap to guarantee the identity and quality of the product.*

- 6.1 Proposed harmonized label and pamphlet as per harmonized regional guidelines.
- 6.2 Containers
  - 6.2.1 Type.
  - 6.2.2 Materials.
  - 6.2.3 Capacity.
  - 6.2.4 Resistance.
- 6.3 Packaging.
  - 6.3.1 Type.
  - 6.3.2 Materials.
  - 6.3.3 Capacity.
  - 6.3.4 Resistance.
- 6.4 Action of the product on container materials.
- 6.5 Decontamination and container handling procedures (triple rinsing and other techniques according to local current laws) .

#### 7. DATA ON FORMULATED PRODUCT REMNANT MANAGEMENT

- 7.1 Procedures for the destruction of active substances and for decontamination.
- 7.2 Recovery possibilities (if available).
- 7.3 Neutralization possibilities.
- 7.4 Controlled incineration (conditions).
- 7.5 Water purification (if available).
- 7.6 Recommended methods and precautions during handling, storage, transportation and in the case of fire.
- 7.7 In case of fire, reactive products and combustion gases.
- 7.8 Information on personal protective equipment.
- 7.9 Application equipment cleaning procedures.

#### 8. TOXICOLOGICAL DATA ON THE FORMULATED PRODUCT

- 8.1 Acute toxicity in mammals.
  - 8.1.1 Average acute oral toxicity in rats in mg/Kg of body weight.
  - 8.1.2 Average acute dermal toxicity in rats and rabbits in mg/Kg of body weight.
  - 8.1.3 Average acute lethal concentration by inhalation in mg/l or mg/m<sup>3</sup>.
  - 8.1.4 Eye irritation (this study shall be omitted when the materials being evaluated are corrosive)
  - 8.1.5 Skin sensitivity.

- 8.2 Mandatory medical information.  
8.2.1 Diagnosis and symptoms of intoxication.
- 8.3 Available complementary medical information.  
8.3.1 Information on clinical, accidental and intentional cases (when available).
9. **DATA ON THE EFFECTS OF THE FORMULATED PRODUCT ON THE ENVIRONMENT**
- 9.1 Toxic effects on non-mammalian species (when required).  
9.2 Toxic effects on mammalian species: other than those indicated in point 8 (when required).  
9.3 Effects on the environment (when required).
10. **ADDITIONAL INFORMATION ON OTHER COMPONENT SUBSTANCES OF THE FORMULATION, IN CASES WHERE THEY ARE OF TOXICOLOGICAL IMPORTANCE.**
- 11.1 Information regarding solvents, emulsifiers, adhesives, stabilizers, colorants and any other substance included in the formulation of toxicological and ecotoxicological importance.  
11.1.1 Acute toxicity (oral, dermal, inhalation) (when applicable)  
11.1.2 Oncogenesis (when applicable)  
11.1.3 Biodegradability (when applicable)  
11.1.4 Partition coefficient.

**For adjuvants of agricultural use (six copies in English):-**

- A) **PHYSICAL AND CHEMICAL PROPERTIES OF THE MAIN INGREDIENT(S) THAT CONSTITUTE THE ADJUVANT**
1. Chemical name(s) of the ingredient(s) and its concentration(s) expressed in g/kg or g/l.
  2. Empirical formula and molecular weight, when applicable.
  3. Melting point in °C, when applicable.
  4. Decomposition point in °C, when applicable.
  5. Boiling point in °C, when applicable.
  6. Solubility in water at temperatures between 10 and 30°C.
  7. Solubility of the main ingredient(s) in several solvents.
  8. Density at any temperature between 10 to 30°C.
  9. Physical state.

10. Indicate product stability and storage conditions, such as temperature, humidity and airtightness, indicating if there is any chemical reaction with the containers.
11. Product characteristics, when applicable:
  - 11.1 Inflammability
  - 11.2 Explosivity
  - 11.3 Hydrolysis
  - 11.4 Oxidation
  - 11.5 Temperature and light resistance index, only in the case in which the constituents are sensitive.
  - 11.6 Color
12. Corrosivity
13. Incompatibility with other agricultural chemical products and other substances
14. Other pertinent properties.
15. Indicate if product produces foam.
16. Half-life.

B) **RECOMMENDED USAGE**

1. Recommended dosage.
2. Suitable methods for the preparation of the application material.

**SCHEDULE II**  
**[Regulation 5(2)]**

**REQUIREMENTS FOR LABELLING OF FORMULATED PRODUCTS**

All formulated pesticides shall bear the approved printed or lithographed label and respective pamphlet, and shall coincide with the technical information provided to support its registration in Belize. The owner of the registration shall be solely responsible for the technical information presented on the label and pamphlet

**LABELLING OF FORMULATED CHEMICAL PESTICIDES FOR AGRICULTURAL USE, FOR CONTAINERS OR PACKAGES OF LESS THAN ONE KILOGRAM OR OF ONE LITER AND CONSISTING OF ONLY ONE PANEL**

The product shall display, in clear print and written in English or Spanish, the following information in the following order:

- 1.1 The following legend; centered and running the entire length of the upper margin, affixed in bold, capital letters.

**STOP! READ THE PAMPHLET BEFORE USING THE PRODUCT  
AND CONSULT A PROFESSIONAL IN AGRICULTURAL SCIENCES.**

- 1.2 Formulating, distributing or manufacturing company logo. The logo shall occupy a maximum of 4% of the total label area. The logo may be of distinctive colors and duly registered, and shall be placed in the center of the label.
- 1.3 Trade name (written in letters only), followed by the concentration of the active ingredient (expressed in numbers), and its English acronym for the formulation of the pesticide. Exception will be made in the cases where commercial names adopt the generic name of a pesticide which contains numbers.

Concentration will be expressed in percentage on a weight by weight basis (w/w) in the case of solids, or weight by volume (w/v) for liquids (without the [%] sign and the formulation of the pesticide. Where more than one

active substances are chemically mixed, their concentrations will be added to be expressed in total.

- 1.4 Companies possessing duly registered logos may print these in the center of the label. This shall not interfere with the written content of the label. The color of these figures shall be the same as those of the toxicological color band.
- 1.5 Class (biological action) and type (chemical family) of the pesticide centered, in bold capitals.
  - 1.5.1 Where pesticides are mixed, each shall be declared individually as may apply.
    - a) Mixture of classes are separated by commas. (eg. **INSECTICIDE, NEMATOCIDE**).
    - b) Mixture of types are separated by commas. (eg. **CARBAMATE, ORGANOPHOSPHATE**).
    - c) Mixture of type and class are separated by a hyphen. **ORGANOPHOSPHATE - PYRETHROID**).
- 1.6 Common Name - proposed or accepted by ISO, shall be placed in the center, in bold capitals; in the case of mixtures, these shall be separated by commas. (eg. **CYPERMTHRIN, PROPENOPHOS**).
- 1.7 Title: **Chemical composition**

This title shall be written as shown and in bold.

Chemical name (proposed or accepted by IUPAC) of the active ingredient and its percentage expressed in w/w in the case of a solid and **w/w** or **w/v** in the case of a liquid. These abbreviations shall be in small, bold letters above the digits indicating its percentage.

Inert ingredients and their percentage in w/w in the case of a solid, or w/v or w/w if it is a liquid. These abbreviations shall be placed above the digits indicating percentage. Hydrocarbon-based solvents

shall be declared, where applicable, their chemical names shall be cited.

Total. Sum of the percentages of the ingredients of the product.

- 1.8 Contains: \_\_\_\_\_ grams active ingredient (s) per kilogram or liter of the commercial product. The chemical or common names, nor abbreviations shall be used.
- 1.9 **Net content:** To be written as shown and in bold. In liters or kilograms, or their multiples.
- 1.10 On the central portion of the label, and in accordance with the latest **WHO Pesticide Hazard Classification, acute LD<sub>50</sub> values for formulated products**), the following shall be indicated:
  - 1.10.1 For **EXTREMELY HAZARDOUS** substances, (Category 1a) the words **VERY TOXIC** shall be printed in bold capitals with permanent ink, with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
  - 1.10.2 For **HIGHLY HAZARDOUS** substances, (Category 1b) the word **TOXIC** shall be printed in bold capitals and permanent ink with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
  - 1.10.3 For **MODERATELY HAZARDOUS** substances (Category II) the word **HARMFUL** shall be printed in bold capitals and permanent ink. The figure **X** in bold within a rhombus; this shall occupy no less than 2% of the total label area.
  - 1.10.4 For **SLIGHTLY HAZARDOUS** substances (Category III), the word **CAUTION** shall be printed in bold capitals and permanent ink.

1.10.5 For substances in Category IV, the word **PRECAUTION** shall be printed in bold capitals and permanent ink.

1.11 The legend shall read as follows:

**IN CASE OF INTOXICATION TAKE PATIENT TO A PHYSICIAN  
AND PRESENT THIS LABEL OR PAMPHLET**

The legend shall be centered, and in bold capitals.

1.11.1 At this point, the word **ANTIDOTE** should be indicated: in bold capitals. Where the antidote exists, it shall be printed in bold capitals; on the contrary the words **DOES NOT EXIST** shall be printed in bold capitals; this shall be centered on the label (eg. **ANTIDOTE: DOES NOT EXIST**).

1.12 Name and address of manufacturer and/or formulator.

1.13 Country where product is registered, registration number and registration date, in that order.

1.14 Lot number and date of product formulation date.

1.15 For containers of less than one kilogram (Kg) or one liter (l), a label with two panels may be used; in the case of cylindrical containers, the label shall cover 100% of its surface.

1.15.1 The size of the label for non-cylindrical containers, whose capacity is less than one liter or one kilogram, shall be such that it covers the entire front of the same; in the case of containers or package containing more than one-half but less than one kilogram, these may bear a label consisting of two panels.

In the case of cylindrical containers or packages, the two-panel label shall cover it completely.

1.16 The color band, situated along the lower margin of

the label, shall cover 15% of the label height, nothing shall be allowed to be printed within this band except for its toxicological category.

For toxicological classification purposes of the formulated chemical pesticides the experimental acute oral and/or dermal LD<sub>50</sub> should be used, where this experimental data does not exist, it may be calculated in accordance to the updated WHO document and apply the latest **WHO Pesticide Hazard Classification Chart, acute LD<sub>50</sub> values for formulated products.**

Depending on the toxicity, the label shall bear on the band, with permanent ink and color indicated, the following:

- I. For formulated chemical pesticides categorized as **EXTREMELY HAZARDOUS** (Ia), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **EXTREMELY HAZARDOUS** along the entire band, in black capitals.
- II. For formulated chemical pesticides categorized as **HIGHLY HAZARDOUS** (Ib), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **HIGHLY HAZARDOUS**, along the entire band in black capitals.
- III. For formulated chemical pesticides categorized as **MODERATELY HAZARDOUS** (II) shall bear along the lower margin of the label, a yellow band (PMS\* C) with the words **MODERATELY HAZARDOUS** along the entire band in black capitals.
- IV. For formulated chemical pesticides categorized as **SLIGHTLY HAZARDOUS**, shall bear along the lower margin of the label, a blue band (PMS\* 293 C) with the words **SLIGHTLY HAZARDOUS** along the entire band in white capitals.
- V. For formulated chemical pesticides in category IV, shall bear along the lower margin of the label, a green band (PMS\* 347 C) within which nothing shall be written.

**2 LABELLING OF FORMULATED CHEMICAL PESTICIDES FOR AGRICULTURAL USE, FOR CONTAINERS OR PACKAGES OF ONE OR MORE KILOGRAM OR LITER AND CONSISTING OF ONLY TWO PANELS**

The product shall display, in clear print, the following and in the following order:

**FRONT PANEL**

- 2.1 Shall bear along the upper margin of the label, centered and in black capitals, the following legend:

**STOP! READ THE PAMPHLET BEFORE USING THIS PRODUCT.**

- 2.2 Formulating, distributing or manufacturing company logo. The logo shall occupy a maximum of 4% of the total label area. The logo may be of distinctive colors and which may be duly registered. It shall be placed in the center of the label.
- 2.3 Trade name (written in letters only), followed by the concentration of the active ingredient (expressed in numbers) and its English acronym for the formulation of the pesticide. Exception will be made in the cases where trade names adopt the common name of a pesticide which contains numbers (eg. 2,4-D 60 SL).

Concentration will be expressed in percentage on a weight by weight basis (w/w) in the case of solids or weight by volume (w/v) for liquids (without the [%] sign and the formulation of the pesticide with English acronym. Where more than one active substance is chemically mixed, their concentrations will be added to be expressed in total.

- 2.4 Companies possessing duly registered logos may print these in the center of the label. This shall not interfere with the written content of the label. The color of these figures shall be the same as those of the toxicological band.
- 2.5 Class (biological action) and type (chemical family) of the pesticide centered, in bold capitals.

- 2.5.1 Where pesticides are mixed, each shall be declared individually as may apply.
- a) Mixture of classes are separated by commas. eg. **INSECTICIDE, NEMATICIDE**).
  - b) Mixture of types are separated by commas. (eg. **CARBAMATE, ORGANOPHOSPHATE**).
  - c) Mixture of type and class are separated by a hyphen. (**ORGANOPHOSPHATE - PYRETHROID**).
- 2.6 Common Name, as proposed or accepted by ISO, shall be placed in the center, in bold capitals; in the case of mixtures, these shall be separated by commas. (eg. **CYPERMTHRIN, PROPHENOPHOS**).
- 2.7 Title: **Chemical composition**
- This title shall be written as shown and in bold.
- Chemical name of the active ingredient as proposed or accepted by IUPAC and its percentage in w/w in the case of a solid and **w/w** or **w/v** in the case of a liquid. These abbreviations shall be in small, bold letters above the digits indicating its percentage.
- Inert ingredients and their percentage in w/w in the case of a solid, or w/v or w/w if it is a liquid. These abbreviations shall be placed above the digits indicating percentage. Hydrocarbon-based solvents shall be declared, where applicable, their chemical names shall be cited.
- Total. Sum of the percentages of the ingredients of the product.
- 2.8 Contains: \_\_\_\_\_ grams active ingredient (s) per kilogram or liter of the commercial product. The chemical or generic names, nor abbreviations shall be used.
- 2.9 **Net content:** To be written as shown and in bold. In liters or kilograms, or their multiples.

- 2.10 On the central portion of the label, and in accordance with the latest **WHO Pesticide Hazard Classification Chart, acute LD<sub>50</sub> values for formulated products**, the following shall be indicated:
- 2.10.1 For **EXTREMELY HAZARDOUS** substances, (Category 1a) the words **VERY TOXIC** shall be printed in bold capitals with permanent ink, with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
  - 2.10.2 For **HIGHLY HAZARDOUS** substances, (Category 1b) the word **TOXIC** shall be printed in bold capitals and permanent ink with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
  - 2.10.3 For **MODERATELY HAZARDOUS** substances (Category II) the word **HARMFUL** shall be printed in bold capitals and permanent ink. The figure **X** in bold within a rhombus; this shall occupy no less than 2% of the total label area.
  - 2.10.4 For **SLIGHTLY HAZARDOUS** substances (Category III), the word **CAUTION** shall be printed in bold capitals and permanent ink.
  - 2.10.5 For substances in Category IV, the word **PRECAUTION** shall be printed in bold capitals and permanent ink.
- 2.11 At this point, the word **ANTIDOTE** should be indicated: in bold capitals. Where the antidote exists, it shall be printed in bold capitals; on the contrary the words **DOES NOT EXIST** shall be printed in bold capitals; this shall be centered on the label (eg. **ANTIDOTE: DOES NOT EXIST**).
- 2.12 Name and address of manufacturer and/or formulator.

2.13 Title: **PRECAUTIONS AND WARNINGS FOR USE:** (left-aligned and in bold capitals). Shall bear the following legends, in bold capitals.

**DO NOT STORE IN DWELLINGS.  
KEEP UNDER LOCK AND KEY, AWAY FROM THE REACH  
OF CHILDREN.**

(This legend shall be left-aligned with its respective pictogram at its right).

Subsequently, any of the three legends described below may be used as necessary, depending on the type of formulation, accompanied by its respective pictogram.

**USE THE FOLLOWING PROTECTIVE GEAR WHEN  
HANDLING, LOADING AND APPLYING THE  
PRODUCT.**

PICTOGRAM

**USE THE FOLLOWING PROTECTIVE GEAR WHEN HANDLING  
THE PRODUCT, DURING THE MIXING, LOADING AND  
APPLICATION.**

PICTOGRAM

**USE THE FOLLOWING PROTECTIVE GEAR WHEN HANDLING  
OR APPLYING THE PRODUCT.**

PICTOGRAM

Based on the procedural pictograms, the specific names of the recommended gear shall be indicated in writing.

**DO NOT EAT, SMOKE OR DRINK WHILE HANDLING OR  
APPLYING THIS PRODUCT.**

PICTOGRAM

**SHOWER AFTER WORKING WITH THIS PRODUCT AND WEAR  
CLEAN CLOTHES.**

PICTOGRAM

Placement, size and color of the pictograms shall be the following:

**PLACEMENT AND ORDER OF THE PICTOGRAMS:** Shall be placed to the right of the corresponding legends, that is, on the right margin of the label (front panel).

**SIZE:** The size of each pictogram shall be such that it allows the user to identify and understand the message.

**COLOUR:** Black figures on a white background.

2.14 The legend shall read:

**IN CASE OF INTOXICATION TAKE THE PATIENT TO A  
PHYSICIAN AND PRESENT THIS LABEL OR PAMPHLET.**

(Centered and in bold capitals)

2.15 Title: **SYMPTOMS OF INTOXICATION:**  
(Left-aligned, in bold capitals, followed by a colon).  
Specific for the pesticide.

2.16 Title: **FIRST AID:**  
Left-aligned, in bold capitals, followed by a colon).  
Explanation of applicable measures in case of  
intoxication via oral, dermal, inhalation or by  
contact with eyes; in that order.

2.17 The legend shall read:

**DO NOT GIVE TO DRINK OR INDUCE VOMITTING IN PERSONS IN  
AN UNCONSCIOUS STATE**

(Centered, and in bold capitals).

2.18 Title: **MEDICAL TREATMENT:**  
(Left-aligned, in bold capitals and followed by a  
colon)

2.19 The color band, situated along the lower margin of the label, shall cover 15% of the label height, nothing shall be allowed to be printed within this band except for its toxicological category.

For toxicological classification purposes of the formulated chemical pesticides the experimental acute

oral and/or dermal LD<sub>50</sub> should used, where this experimental data does not exist, it may be calculated in accordance to the updated WHO document and apply the latest **WHO Pesticide Hazard Classification Chart, acute LD<sub>50</sub> values for formulated products.**

Depending on the toxicity, the label shall bear on the band, with permanent ink and color indicated, the following:

- I. For formulated chemical pesticides categorized as **EXTREMELY HAZARDOUS** (Ia), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **EXTERMEY HAZARDOUS** along the entire band, in **black** capitals.
- II. For formulated chemical pesticides categorized as **HIGHLY HAZARDOUS**(Ib), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **HIGHLY HAZARDOUS**, along the entire band in **black** capitals.
- III. For formulated chemical pesticides categorized as **MODERATELY HAZARDOUS** (II) shall bear along the lower margin of the label, a yellow band (PMS\* C) with the words **MODERATELY HAZARDOUS** along the entire band in **black** capitals.
- IV. For formulated chemical pesticides categorized as **SLIGHTLY HAZARDOUS**, shall bear along the lower margin of the label, a blue band (PMS\* 293 C) with the words **SLIGHTLY HAZARDOUS** along the entire band in **white** capitals.
- V. For formulated chemical pesticides in category IV, shall bear along the lower margin of the label, a green band (PMS\* 347 C) within which nothing shall be written.

#### REAR PANEL

- 2.20 The following legend; centered and running the entire length of the upper margin:

**STOP! READ THE PAMPHLET BEFORE USING THE PRODUCT  
AND CONSULT A PROFESSIONAL IN AGRICULTURAL  
SCIENCES.**

**PROTECT THE ENVIRONMENT WITH GOOD AGRICULTURAL  
PRACTICES, COMPLY WITH THE RECOMMENDATIONS  
PROVIDED IN THE PAMPHLET.**

Both legends shall be affixed in bold capitals.

- 2.21 In the case where the chemical pesticide may have an effect on the environment, it shall bear the following legend:

**TOXIC TO LIVESTOCK**

**PICTOGRAM**

(The phrase shall be left-aligned and written in bold capitals, ending with a colon).

**TOXIC TO FISH AND CRUSTACEANS  
DO NOT CONTAMINATE RIVERS, LAKES OR PONDS**

**PICTOGRAM**

**WITH THIS PRODUCT OR ITS EMPTY CONTAINERS  
OR PACKAGES.**

**NOTE: Where the pesticide may have effects only on fish, the word crustaceans shall not be included in the previous legend, and vice versa.**

The legend shall be left-aligned and written in bold capitals, with its corresponding pictogram to the right.

**TOXIC TO BEES**

Left-aligned, in bold capitals).

Placement, size and color of the pictograms shall be the following:

**PLACEMENT AND ORDER OF THE PICTOGRAMS:** Shall be placed to the right of the corresponding legends,

that is, on the right margin of the label (front panel).

**SIZE:** The size of each pictogram shall be such that it allows the user to identify and understand the message.

**COLOUR:** Black figures on a white background.

2.22 **Title: WARRANTY DECLARATION:**

(Left-aligned and written in bold capitals, ending with a colon).

2.23 Write the names of the countries in Central America where the product has been registered, number and date of registration. (In the following order).

<b>COUNTRY</b>	<b>REGISTRATION NUMBER</b>	<b>DATE OF REGISTRATION</b>
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**GUATEMALA**

**BELIZE**

**EL SALVADOR**

**HONDURAS**

**NICARAGUA**

**COSTA RICA**

**PANAMA**

**LOT NUMBER:**

**DATE OF FORMULATION:**

2.24 The color band, situated along the lower margin of the label, identifying the toxicological category shall cover 15% of the label height; nothing shall be allowed to be printed within this band.

**3 LABELLING OF FORMULATED CHEMICAL  
PESTICIDES FOR AGRICULTURAL USE, FOR CONTAINERS OR  
PACKAGES OF ONE OR MORE KILOGRAM OR LITER AND  
CONSISTING OF THREE PANELS**

The product shall display, in clear print, the following and in the following order:

**LEFT PANEL**

- 3.1 Shall bear along the upper margin of the label, centered and in black capitals, the following legend:

**STOP! READ THE PAMPHLET BEFORE USING THIS  
PRODUCT.**

The legend shall be affixed in bold capitals.

- 3.2 Title: **PRECAUTIONS AND WARNINGS FOR USE:** (left-aligned and in bold capitals). Shall bear the following legends, in bold capitals.

**DO NOT STORE IN DWELLINGS.  
KEEP UNDER LOCK AND KEY, AWAY FROM THE REACH  
OF CHILDREN.**

(This legend shall be left-aligned with its respective pictogram at its right).

Subsequently, any of the three legends described below may be used as necessary, depending on the type of formulation, accompanied by its respective pictogram.

**USE THE FOLLOWING PROTECTIVE GEAR WHEN  
HANDLING, LOADING AND APPLYING THE PRODUCT.**

PICTOGRAM

**USE THE FOLLOWING PROTECTIVE GEAR WHEN HANDLING  
THE PRODUCT, DURING THE MIXING, LOADING AND  
APPLICATION.**

PICTOGRAM

**USE THE FOLLOWING PROTECTIVE GEAR WHEN HANDLING  
OR APPLYING THE PRODUCT.**

PICTOGRAM

Based on the procedural pictograms, the specific names of the recommended gear shall be indicated in writing.

**DO NOT EAT, SMOKE OR DRINK WHILE HANDLING OR APPLYING THIS PRODUCT.**

PICTOGRAM

**SHOWER AFTER WORKING WITH THIS PRODUCT AND WEAR CLEAN CLOTHES.**

PICTOGRAM

Placement, size and color of the pictograms shall be the following:

**PLACEMENT AND ORDER OF THE PICTOGRAMS:** Shall be placed to the right of the corresponding legends, that is, on the right margin of the label (front panel) and in the established order.

**SIZE:** The size of each pictogram shall be such that it allows the user to identify and understand the message.

**COLOUR:** Black figures on a white background.

3.3 The legend shall read:

**IN CASE OF INTOXICATION TAKE THE PATIENT TO A PHYSICIAN AND PRESENT THIS LABEL OR PAMPHLET.**

(Centered and in bold capitals)

3.4 Title: **SYMPTOMS OF INTOXICATION:**  
(Left-aligned, in bold capitals, followed by a colon). Specific for the pesticide.

3.5 Title: **FIRST AID:**  
(Left-aligned, in bold capitals, followed by a colon). Explanation of applicable measures in case of intoxication via oral, dermal, inhalation or by contact with eyes; in that order.

3.6 The legend shall read:

**DO NOT GIVE TO DRINK OR INDUCE VOMIT TO PERSONS IN AN UNCONSCIOUS STATE**

(Centered, and in bold capitals).

3.7 Title: **MEDICAL TREATMENT:**

(Left-aligned, in bold capitals and followed by a colon)

3.8 The color band, situated along the lower margin of the label, shall cover 15% of the label height, nothing shall be allowed to be printed within this band except for its toxicological category.

For toxicological classification purposes of the formulated chemical pesticides the experimental acute oral and/or dermal LD<sub>50</sub> should be used, where this experimental data does not exist, it may be calculated in accordance to the updated WHO document and apply the latest **WHO Pesticide Hazard Classification Chart, acute LD<sub>50</sub> values for formulated products.**

Depending on the toxicity, the label shall bear on the band, with permanent ink and color indicated, the following:

- I. For formulated chemical pesticides categorized as **EXTREMELY HAZARDOUS** (Ia), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **EXTREMELY HAZARDOUS** along the entire band, in **black** capitals.
- II. For formulated chemical pesticides categorized as **HIGHLY HAZARDOUS** (Ib), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **HIGHLY HAZARDOUS**, along the entire band in **black** capitals.
- III. For formulated chemical pesticides categorized as **MODERATELY HAZARDOUS** (II) shall bear along the lower margin of the label, a yellow band (PMS\* C) with the words **MODERATELY HAZARDOUS**

along the entire band in **black** capitals.

- IV. For formulated chemical pesticides categorized as **SLIGHTLY HAZARDOUS**, shall bear along the lower margin of the label, a blue band (PMS\* 293 C) with the words **SLIGHTLY HAZARDOUS** along the entire band in **white** capitals.
- V. For formulated chemical pesticides in category IV, shall bear along the lower margin of the label, a green band (PMS\* 347 C) within which nothing shall be written.

#### CENTER PANEL

- 3.9 Formulating, distributing or manufacturing company logo. The logo shall occupy a maximum of 4% of the total label area. The logo may be of distinctive colors and which may be duly registered. it shall be placed in the center of the label.
- 3.10 Trade name (written in letters only), followed by the concentration of the active ingredient (expressed in numbers) and its English acronym for the formulation of the pesticide. Exception will be made in the cases where trade names adopt the common name of a pesticide which contains numbers (eg. 2,4-D 60 SL).

Concentration will be expressed in percentage on a weight by weight basis (w/w) in the case of solids or weight by volume (w/v) for liquids (without the [%] sign and the formulation of the pesticide with English acronym. Where more than one active substance are chemically mixed, their concentrations will be added to be expressed in total.

- 3.11 Companies possessing duly registered logos may print these in the center of the label. This shall not interfere with the written content of the label. The color of these figures shall be the same as those of the toxicological band.

- 3.12 Class (biological action) and type (chemical

family) of the pesticide centered, in bold capitals.

- 3.12.1 Where pesticides are mixed, each shall be declared individually as may apply.
- a) Mixture of classes are separated by comas.(eg. **INSECTICIDE, NEMATICIDE**).
  - b) Mixture of types are separated by comas.(eg. **CARBAMATE, ORGANOPHOSPHATE**).
  - c) Mixture of type and class are separated by a hyphen.  
(**ORGANOPHOSPHATE - PYRETHROID**).

3.13 Common Name, as proposed or approved by ISO, shall be placed in the center, in bold capitals; in the case of mixtures, these shall be separated by comas.

3.14 Title: **Chemical composition**

This title shall be written as shown and in bold.

Chemical name of the active ingredient with biological action as proposed or approved by IUPAC and its percentage in w/w in the case of a solid and **w/w** or **w/v** in the case of a liquid. These abbreviations shall be in small, bold letters above the digits indicating its percentage.

Inert ingredients and their percentage in w/w in the case of a solid, or w/v or w/w if it is a liquid. These abbreviations shall be placed above the digits indicating percentage. Hydrocarbon-based solvents shall be declared, where applicable, their chemical names shall be cited.

Total. Sum of the percentages of the ingredients of the product.

- 3.15 Contains: \_\_\_\_\_ grams active ingredient (s) per kilogram or liter of the commercial product. The chemical or generic names, nor abbreviations shall be used.

- 
- 3.16 **Net content:** To be written as shown and in bold. In liters or kilograms, or their multiples
- 3.17 On the central portion of the label, and in accordance with the latest **WHO Pesticide Hazard Classification Chart, acute LD<sub>50</sub> values for formulated products**, the following shall be indicated:
- 3.17.1 For **EXTREMELY HAZARDOUS** substances, (Category 1a) the words **VERY TOXIC** shall be printed in bold capitals with permanent ink, with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
- 3.17.2 For **HIGHLY HAZARDOUS** substances, (Category 1b) the word **TOXIC** shall be printed in bold capitals and permanent ink with the death skull and cross bones in black, within a rhombus; this shall occupy no less than 2% of the total label area.
- 3.17.3 For **MODERATELY HAZARDOUS** substances (Category II) the word **HARMFUL** shall be printed in bold capitals and permanent ink. The figure **X** in bold within a rhombus; this shall occupy no less than 2% of the total label area.
- 3.17.4 For **SLIGHTLY HAZARDOUS** substances (Category III), the word **CAUTION** shall be printed in bold capitals and permanent ink.
- 3.17.5 For substances in Category IV, the word **PRECAUTION** shall be printed in bold capitals and permanent ink.
- 3.18 At this point, the word **ANTIDOTE** should be indicated: in bold capitals. Where the antidote exists, it shall be printed in bold capitals;

on the contrary the words DOES NOT EXIST shall be printed in bold capitals; this shall be centered on the label (eg. **ANTIDOTE: DOES NOT EXIST**).

- 3.19 Name and address of manufacturer and/or formulator.
- 3.20 The color band, situated along the lower margin of the label, shall cover 15% of the label height, nothing shall be allowed to be printed within this band except for its toxicological category.

For toxicological classification purposes of the formulated chemical pesticides the experimental acute oral and/or dermal LD<sub>50</sub> should be used, where this experimental data does not exist, it may be calculated in accordance to the updated WHO document and apply the latest **WHO Pesticide Hazard Classification Chart**.

Depending on the toxicity, the label shall bear on the band, with permanent ink and color indicated, the following:

- I. For formulated chemical pesticides categorized as **EXTREMELY HAZARDOUS** (Ia), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **EXTREMELY HAZARDOUS** along the entire band, **in black** capitals.
- II. For formulated chemical pesticides categorized as **HIGHLY HAZARDOUS** (Ib), shall bear along the lower margin of the label, a red band (PMS\* 199 C) with the words **HIGHLY HAZARDOUS**, along the entire band **in black** capitals.
- III. For formulated chemical pesticides categorized as **MODERATELY HAZARDOUS** (II) shall bear along the lower margin of the label, a yellow band (PMS\* C) with the words **MODERATELY HAZARDOUS** along the entire band **in black** capitals.
- IV. For formulated chemical pesticides categorized as **SLIGHTLY HAZARDOUS**, shall bear along the lower margin of the label, a blue band (PMS\* 293 C) with the words **SLIGHTLY HAZARDOUS**

along the entire band **in white** capitals.

- V. For formulated chemical pesticides in category IV, shall bear along the lower margin of the label, a green band (PMS\* 347 C) within which nothing shall be written.

#### RIGHT PANEL

- 3.21 The following legend; centered and running the entire length of the upper margin:

**CONSULT A PROFESSIONAL IN AGRICULTURAL SCIENCES.**

**PROTECT THE ENVIRONMENT WITH GOOD AGRICULTURAL PRACTICES, COMPLY WITH THE RECOMMENDATIONS PROVIDED IN THE PAMPHLET.**

Both legends shall be affixed in bold capitals.

- 3.22 In the case where the chemical pesticide may have an effect on the environment, it shall bear the following legend:

**TOXIC TO LIVESTOCK  
PICTOGRAM**

(The phrase shall be left-aligned and written in bold capitals, ending with a colon).

**TOXIC TO FISH AND CRUSTACEANS  
DO NOT CONTAMINATE RIVERS, LAKES OR PONDS**

**PICTOGRAM**

**WITH THIS PRODUCT OR ITS EMPTY CONTAINERS  
OR PACKAGES.**

**NOTE: Where the pesticide may have effects only on fish, the word crustaceans shall not be included in the previous legend, and vice versa.**

The legend shall be left-aligned and written in bold capitals, with its corresponding pictogram to the right.

**TOXIC TO BEES**

(Left-aligned, in bold capitals).

Placement, size and color of the pictograms shall be the following:

**PLACEMENT AND ORDER OF THE PICTOGRAMS:** Shall be placed to the right of the corresponding legends, that is, on the right margin of the label (front panel).

**SIZE:** The size of each pictogram shall be such that it allows the user to identify and understand the message.

**COLOUR:** Black figures on a white background.

3.23 **Title: WARRANTY DECLARATION:**  
(Left-aligned and written in bold capitals, ending with a colon).

3.24 Write the names of the countries in Central America where the product has been registered, number and date of registration. (In that order).

<b>COUNTRY</b>	<b>REGISTRATION NUMBER</b>	<b>DATE OF REGISTRATION</b>
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**GUATEMALA**  
**BELIZE**  
**EL SALVADOR**  
**HONDURAS**  
**NICARAGUA**  
**COSTA RICA**  
**PANAMA**

**LOT NUMBER:**

**DATE OF FORMULATION:**

- 3.25 The color band, situated along the lower margin of the label, identifying the toxicological category shall cover 15% of the label height, nothing shall be allowed to be printed within this band.

**SIZE AND CHARACTERISTICS OF LABELS FOR FORMULATED CHEMICAL PESTICIDES FOR AGRICULTURAL.**

1. The size of the labels must be related to the size and shape of the containers and packages in accordance with the following proportion:
  - 1.a For containers or packages with less than half a liter and less than one kilogram, models of labels with one or two panels may be used.
  - 1.b For containers or packages with one liter or none kilogram and up to four liters or five kilograms, the label must cover the entire surface of the container or package.
  - 1.c For containers or packages with four liters or five kilograms and up to nineteen liters to twenty-five kilograms, labelling shall be as in 1b, but the label must cover at least 25% of the surface.

The size of the label shall not be less than that of containers or packages with less than four liters or five kilograms.
  - 1.d For containers or packages with more than nineteen liters or twenty-five kilograms, the size of the label shall be at least of the same size as that for containers or packages with nineteen liters or twenty-five kilograms.
2. The order of the content and the form of the labels for formulated chemical pesticides for agricultural use, shall be as that established by this regulation.
3. The labels for chemical pesticides of **RESTRICTED USE** shall bear the legend: **RESTRICTED USE PESTICIDE**; centered and

on the upper margin, in bold capitals of the size as that of the warning, visible enough according to the size of the label.

4. The text on the labels shall be black on a white background, exception will be made for those labels that are lithographed unto containers or packages being of a color other than white for those photosensitive pesticides.

The physicochemical properties of those photosensitive pesticides, shall be scientifically supported with literature (technical support) by the manufacturer and/or formulator of the molecule.

- 4.a A manufacturer, formulator or distributor's logo may be included. The logo shall be 4% of the total label area. Distinctive logo colours that are duly registered shall be placed on the central panel.
  - 4.b Enterprises that have duly registered figures may print these on the label. This shall not alter the written content of the same. The colors of these figures shall be the same as those of the toxicological band.
5. In the event that the lethal doses mentioned correspond to different toxicological categories, these shall be established in accordance to WHO descriptions.
  6. The greater toxicity value for the formulated product shall be used in accordance to it oral or dermal LD50 for the corresponding toxicological classification as established by the WHO.

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**TO GUIDE THE CONTENT OF THE PAMPHLET FOR FORMULATED  
CHEMICAL PESTICIDES USED IN AGRICULTURE.**

**GENERAL PRINCIPLES:**

All formulated chemical pesticides commercialized in their various forms, shall bear (affixed to it) its printed or lithographed label and respective pamphlet as per harmonized regional guidelines.

The information contained in the pamphlet for formulated chemical pesticides, shall coincide with the technical information provided to support its registration. The technical information is the sole responsibility of the enterprise registering the pesticide.

In the elaboration of the pamphlet, no statement or visual presentation shall be used which may directly or by implication, omission, ambiguity or exaggeration, mislead the buyer with respect to the safety, nature, composition and adequacy in the use of the formulated chemical pesticide.

Words, illustrations or graphic presentations which may make reference to, suggest, directly or indirectly to any other product or use, shall not be used.

**1. GUIDELINES FOR ELABORATING THE PAMPHLET FOR FORMULATED  
CHEMICAL PESTICIDES FOR AGRICULTURAL USE**

- a) The pamphlet shall have one model content of information (presentation) for the three label models as per harmonized regional guidelines.
- b) The pamphlet shall be incorporated unto the containers or packages of the formulated chemical pesticides, these containers or packages shall bear printed or lithographed labels, in accordance with the label models.
- c) Each presentation (container or package) of a pesticide, shall be accompanied by its respective pamphlet.

THE PAMPHLET SHALL CONTAIN THE FOLLOWING INFORMATION, AND IN THE ORDER DESCRIBED, CONSIDERING THAT THE NUMBERS IDENTIFYING THE ORDER OF THE SAME, NEED NOT BE WRITTEN IN THE ELABORATION OF THE PAMPHLET:

1.1 The following shall be written in bold capitals:

**STOP! READ THE PAMPHLET BEFORE USING THE PRODUCT  
AND CONSULT A PROFESSIONAL IN AGRICULTURAL  
SCIENCES.**

1.2 **TRADE NAME**

Trade name of the formulated chemical pesticide, followed by the concentration expressed in percentage on a weight by weight basis (w/w) in the case of solids or weight by volume (w/v) for liquids (without the [%] sign and the formulation of the pesticide with English acronym.

**NOTES:**

1. Trade name (written in letters only), followed by the concentration of the active ingredient (expressed in numbers) and its English acronym for the formulation of the pesticide, shall be the same as that approved on the corresponding harmonized label (eg. 2,4-D 60 SL).
2. Exception will be made in the cases where trade names adopt the common name of a pesticide which contains numbers (eg. 2,4-D 60).
3. Registered trademarks shall be identified only by the recognized and universally accepted symbol, which is the R within a circle; which shall be placed after the registered trademark followed by the number identifying the concentration of the active ingredient (s), followed its english acronym for the formulation of the pesticide.

1.3 **CLASS** ( use of the product) and **TYPE** (chemical family)

**CLASS:** Refers to the specific use of the pesticide (e.g. **INSECTICIDE, ACARICIDE, NEMATOCIDE, FUNGICIDE, HERBICIDE etc.**)

The use of the pesticide shall be written in bold capitals. Where a pesticide is for more than one use, these shall be separated by a coma.

**TYPE:** Refers to its classification according to its chemical family as proposed or approved by IUPAC.

By virtue of which, the chemical family of the pesticide shall be written in bold capitals; after the **CLASS**, and separated by a hyphen (-).

Where a pesticide has more than one active ingredient of different chemical families (being a mixture), the chemical families shall be separated by a coma.

Example:

**TRIPLE BLOW 12.6 GR**  
INSECTICIDE, FUNGICIDE-ORGANOPHOSPHATE, TRIAZOLE

#### 1.4 **COMMON NAME**

This shall be written as proposed or approved by ISO and shall be written in bold capitals; where a pesticide has more than one common name, these shall be separated by a hyphen.

#### 1.5 **PICTOGRAPHIC SYMBOL AND WARNING PHRASE**

The pictographic symbol according to the toxicological category of the formulated chemical pesticide, shall be placed with its corresponding warning phrase, in bold capitals, as shown in the WHO Pesticide Hazard Classification Chart, and indicated by the acute LD<sub>50</sub> values for formulated products.

Pictographic symbols shall be printed in black on a white background.

**1.6 ANTIDOTE:**

The word antidote shall be written in bold capitals, followed by a colon and the name of its corresponding specific antidote.

If a pesticide should not have an antidote, the words **DO NOT EXIST** shall be written in its place; in bold capitals.

**1.7 SOLVENT:**

The word solvent (s) shall be written in bold capitals, followed by a colon and the corresponding nature of the hydrocarbon-based solvent (s).

If there should be more than one hydrocarbon-based solvent, these shall be separated by a semi-colon. If the pesticide should be free of hydrocarbon-based solvent (s) in its formulation, this item shall not be included in the elaboration of its pamphlet.

**1.8 DENSITY:**

The word density, ( $D_{20}^{\circ C}$ ) shall be placed in this order, in bold capitals, followed by a colon and the value of the density of the formulated pesticide and its corresponding temperature in degrees Celsius.

**1.9** The following legends; centered and in bold capitals, with corresponding, pictograms shall be placed in the order they appear as follows:

**THIS PRODUCT MAY BE FATAL IF SWALLOWED AND/OR IF  
INHALED MAY CAUSE DAMAGE TO THE EYES AND SKIN BY  
EXPOSURE**

**"DO NOT STORE IN DWELLINGS"  
"KEEP OUT OF THE REACH OF CHILDREN, MENTALLY  
UNSOOUND PERSONS, DOMESTIC ANIMALS, FOOD AND  
MEDICATIONS"**

**1.10 AGRONOMIC USE**

This title shall be written in bold capitals.

**1.10.1 MODE OF ACTION:**

This subtitle shall be written in bold capitals followed by a colon.

Subsequently, the mode of action of the pesticide shall be indicated (e.g.: systemic, contact, preventive, curative, polyvalent, post-emergent, pre-emergent, etc.). Describe the behaviour of the pesticide within the plant (acropetal, basipetal, xylem and phloem, etc); in language easily understood by the user (applicator).

**1.10.2 APPLICATION EQUIPMENT:**

This subtitle shall be written in bold capitals followed by a colon.

Subsequently, the application equipment shall be specified in detail, according to the type of pesticide and application equipment to be used (sprayer, duster, tractor, helicopter, spray plane, granule spreader, etc.).

Indicate that prior to using the application equipment, one must verify that it is in good working order, free of leaks; as well as the importance of the correct calibration of the application equipment, and the type of nozzle that should be used.

Procedural pictograms shall be placed according to the type of pesticide formulation to be used.

**1.10.3 HOW TO PREPARE THE MIXTURE:**

This subtitle shall be written in bold capitals followed by a colon.

Subsequently, it shall be specified if a recommended order for mixing is made by the manufacturer and/or formulator when other pesticides are included.

The mixing medium (carrier) shall be specified; water, oil or other.

It shall be indicated if agitation is necessary, as well as the conditions for mixing. The importance of precision dosifiers for liquids or solids, agitation paddles, bucket, drum, etc. shall be indicated.

The importance of post-application adequate cleaning and servicing of the application equipment shall be indicated.

Procedural pictograms shall be placed according to the product formulation.

**1.10.4 RECOMMENDATIONS FOR USE:**

The information content of the same is described as follows:

**SCIENTIFIC NAME**

The technical names of the crop and pest shall be written in small letters; genus, species, variety or other, with the exception of the first letter identifying the genus.

The genus shall be separated from the species, where the variety is cited, the abbreviation shall be used (var.) followed by the varietal name.

The genus, species and variety shall be written in

bold, normal small letters (with the exception of the first letter of the genus, which shall be in capital).

The genus and species shall be underlined separately; the variety abbreviation (var.) need not be underlined, but the varietal name shall be underlined. (e.g. Brassica oleracea var. capitata).

Where only the genus is cited and the species abbreviation is used (sp. or spp.) these shall not be underlined. (Citrus spp.)

#### COMMON NAME

Synonyms of crops used in Central America shall be written as cited in the technical literature provided by the registrant.

#### RECOMMENDED DOSES

These shall be based on the international system for units of measure

In the case of pesticides formulated as solids, the dose shall be expressed in grams (g) of the formulated pesticide per hectare (Ha) and manzana (mz), in kilograms (Kg) of the formulated pesticide per hectare (Ha) and manzana (mz), and grams or kilograms/volume of water or any medium for mixing.

In the case of a liquid pesticide, the dose shall be expressed as cubic centimeters (cm<sup>3</sup>) or milliliters (ml) or liters (l) per hectare (ha) and manzana (mz) and volume of water or any other medium for mixing.

The information on the dose of the formulated chemical concentration, shall be contained in the technical information presented as support for the

registration of the pesticide and in the case of mixtures, the same shall apply.

Furthermore, development aspects of the crops and pests, weeds, diseases and other organisms shall be considered in determining the best timing for the application of the pesticide, whether it be the insect, or fungus population density; or the size of the weeds, etc.

#### **APPLICATION INTERVAL**

It shall be indicated whether frequency of application should be based on pest scouting, or by predetermined schedule.

#### **PREHARVEST INTERVAL**

The post-application days to harvest shall be determined. This information shall be contained in the technical information provided for registration.

This subtitle needs not to be included for products to which it does not apply.

#### **INTERVAL FOR REENTRY INTO TREATED AREAS**

The minimum period in hours or days recommended for reentry into treated areas shall be defined; and consideration given where pesticide mixtures are applied. Emphasis shall be placed in following recommendations made in the pamphlet.

### **1.11 PHYTOTOXICITY**

This subtitle shall be written in bold capitals, followed by a colon.

Product selectivity shall be indicated (e.g. herbicide is totally selective in broad leaf crops, harmful to grasses, etc.).

**1.12 COMPATIBILITY**

This subtitle shall be written in bold capitals, followed by a colon.

Crops for which testing the product may be necessary shall be defined, as well as crops susceptible to damage when the product is used alone or in mixtures be cited; also if product combination is recommended, and compatibility problems that may arise if mixed with other products based on their acidity or alkalinity.

**1.13 PRECAUTIONS AND WARNINGS FOR USE:**

This subtitle shall be written in bold capitals, followed by a colon.

**1.13.1 STORAGE AND TRANSPORT**

The hazards posed by the pesticide due to its flammability, toxicity, corrosiveness, hygroscopicity and activity as oxidizing agent shall be indicated, (e.g. some dithiocarbamates react adversely in the presence of moisture to produce carbon disulphide, a toxic, highly flammable gas).

It shall be indicated that the pesticide should not be stored along with human or animal feeds (forage, seeds, etc.). Proper conditions for storage, including temperature, humidity, etc. shall be pointed out.

It shall be emphasized that pesticides require safe and adequate storage.

It shall be specified that pesticides are not to be transported along with human and animal food products. Specify that pesticides are to be kept in their original containers, properly sealed and labelled; accompanied by their respective pamphlets.

The following legends; centered and in bold capitals, with corresponding, pictograms as well as storage pictogram and instructions shall be placed.

**DO NOT STORE IN DWELLINGS  
KEEP OUT OF THE REACH OF CHILDREN**

The following legend; shall be centered and written in bold capitals:

**DO NOT SMOKE, EAT OR DRINK WHILE APPLYING OR  
HANDLING THIS PRODUCT. SHOWER AFTER WORKING  
WITH THIS PRODUCT AND WEAR CLEAN CLOTHES.**

#### **1.13.2 SIGNS OF INTOXICATION**

This subtitle shall be written in bold capitals, followed by a colon.

Specific symptoms presented by the pesticide shall be indicated, based on its chemical composition. These symptoms shall coincide with those described in the label.

The information respective to signs of intoxication, shall be the responsibility of those presenting the pesticide for registration and shall be reported in the technical information provided as support for registration.

#### **1.13.3 FIRST AID**

This subtitle shall be written in bold capitals, followed by a colon.

This shall be specified, considering; the routes through which a pesticide may enter the human body, as described in the approved label, and shall be placed in the following order:

**BY INGESTION:**

This subtitle shall be written in bold capitals, followed by a colon.

This shall indicate the procedure and treatment of a person who has swallowed a pesticide.

**BY INHALATION:**

This subtitle shall be written in bold capitals, followed by a colon.

This shall indicated procedure and treatment of person who has inhaled a pesticide.

**BY CONTACT WITH EYES:**

This subtitle shall be written in bold capitals, followed by a colon.

This shall indicate the procedure and treatment of a person who has come into contact with a pesticide.

**BY CONTACT WITH SKIN:**

This subtitle shall be written in bold capitals, followed by a colon.

This shall indicate the procedure and treatment of person who has come into contact with a pesticide.

The following legend; shall be centered and written in bold capitals:

**DO NOT GIVE TO DRINK NOR INDUCE VOMIT IN AN UNCONCIOUS PERSON.**

**1.14 ANTIDOTE AND MEDICAL TREATMENT:**

This subtitle shall be written in bold capitals.

The specific antidote shall be indicated, based on the pesticide, and recommended medical treatment described.

**1.15 NATIONAL INTOXICATION CENTERS**

This subtitle shall be written in bold capitals. The full name of the institution responsible for attending to such emergencies shall be given; including telephone numbers in each country.

**1.16 ENVIRONMENTAL PROTECTION MEASURES**

This subtitle shall be written in bold capitals.

Toxicity to livestock, bees, fish and/or crustaceans, etc. shall be indicated. Emphasis shall be made to not contaminate superficial nor underground water sources with the pesticide.

**1.17 MANAGEMENT OF CONTAINERS, PACKAGES, WASTE AND REMNANTS**

This subtitle shall be written in bold capitals.

Procedures for management of pesticide wastes and methods for their elimination shall be indicated. Methods for the destruction of containers and Packages shall be indicated as well as suitable sites for their disposal; also that these sites should be away from water sources and dwellings.

The following legend; shall be centered and written in bold capitals:

**USING CONTAINERS AND PACKAGES FOR PURPOSES OTHER THAN THOSE FOR WHICH THEY WERE DESIGNED, MAY BE HAZARDOUS TO HUMAN HEALTH AND THE ENVIRONMENT.**

**1.18 DECLARATION OF WARRANTY**

This subtitle shall be written in bold capitals,

followed by a colon.

Conditions under which the manufacturer, formulator and/or distributor offer warranty on the pesticide shall be described.

**1.19 MANUFACTURER AND/OR FORMULATOR**

This subtitle shall be written in bold capitals, followed by a colon.

**NOTE:**

The term **MANUFACTURER:** shall be used in reference to one who synthesizes the molecule; **FORMULATOR:** to one who formulates using technical grade material, and **MANUFACTURER/FORMULATOR:** to one who synthesizes then uses to make formulations of pesticides.

Whenever any of these terms are used, correct address, telephone and/or fax numbers, and name of country shall be provided. correct address, telephone and/or fax numbers, and name of country shall be provided.

**1.20 IMPORTED BY:**

This subtitle shall be written in bold capitals, followed by a colon.

The name of the importer in each country shall be included, alternatively the space may be left blank, but adequate enough for the company sticker or seal to be placed; full name of importing company, correct address, telephone and/or fax numbers, and name of country shall be provided.

1.21	COUNTRY*	REGISTRATION* NUMBER	DATE OF* REGISTRATION
	GUATEMALA		
	BELIZE		
	EL SALVADOR		
	HONDURAS		
	NICARAGUA		
	COSTA RICA		
	PANAMA		

\*These subtitles shall be used as illustrated.

**SCHEDULE III**  
**[Regulation 5(4)]**

**Data Required for the Registration of Domestic-Use Pesticides**

**1. IDENTITY**

- 1.1 Trade Name
- 1.2 Common Name
- 1.3 Intended Use
- 1.4 Manufacturer
- 1.5 Country of origin

**2. TECHNICAL**

- 2.1 Material Safety Data Sheet (MSDS)
- 2.2 Methods of analysis for quality control
- 2.3 Analysis of composition

**3. TOXICOLOGICAL STUDIES**

- 3.1 Acute toxicity studies in mammals: oral, dermal and inhalation, in rat and rabbit
- 3.2 Carcinogenicity, mutagenicity and teratogenicity studies
- 3.3 Studies on non-target organisms (birds, bees, fish, domestic animals)

**4. GENERAL**

- 4.1 Presentation(s)
- 4.2 Containers: Material/Capacity
- 4.3 Proposed Label
- 4.4 Product sample