PHILIPPINE NATIONAL STANDARD

PNS/ BAFS 265:2018
ICS _____

Maximum Residue Limits (MRLs):
Coffee beans
Eggplant
Garlic
Onion
Tomato
Stringbeans
Bittergourd

DEPARTMENT OF AGRICULTURE
PHILIPPINES

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Foreword

The Philippine National Standard (PNS) for the Maximum Residue Limits (MRLs) of Pesticides on Selected Local Crops was developed to provide information on the set limits of pesticide residues for the commodities of coffee beans, eggplant, garlic, onion, tomato, stringbeans, and bittergourd.

Since 2014, the Philippines' Department of Agriculture has continued its efforts on the establishment of internationally harmonized national standards on pesticide residue. The Technical Working Group (TWG) was amended per Special Order No. 90 series of 2017 to facilitate the adoption of the list of maximum residue limits for selected crops. The project is a collaborative effort of experts from the Bureau of Plant Industry (BPI), Fertilizer and Pesticide Authority (FPA), Philippine Council for Agriculture and Fisheries (PCAF), DA AgriPinoy High Value Commodity Development Program (HVCDP), University of the Philippines at Los Baños (UPLB), NFA – Food Development Center (FDC), DOST – Food and Nutrition Research Institute (FNRI), CropLife Philippines, Inc., Crop Protection Association of the Philippines, Inc. (CPAP), Philippine Integrated Crop Management Association (PICMA), and Bureau of Agriculture and Fisheries Standards (BAFS). The TWG, through several meetings, prepared the draft standard for presentation on a public information forum before the document was finalized and adopted as Philippine National Standard (PNS).

These MRLs for selected local crops are an adoption of the list of approved MRLs of pesticide products registered under the Fertilizer and Pesticides Authority and ASEAN MRLs Database. Pesticide residue MRLs databases of Codex Alimentarius Commision and trading partners were also referred to in the development of this standard. This initial list is subject to regular review and updating by the BAFS' TWG. It is envisioned that compliance with these set limits will promote consumer protection against harmful effects of pesticides.

This document was drafted in accordance with the editorial rules of the BPS Directives, Part 3.

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1 Scope

This standard covers the maximum residue limits established for selected local crops which includes coffee beans, eggplant, garlic, onion, tomato, stringbeans, and bittergourd.

2 Normative references

The following referenced documents are indispensable for the application 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.

Database of Association of Southeast Asian Nation Maximum Residue Limits of Pesticide Residue, 2015

Codex Alimentarius Commission Pesticide Residues in Food and Feed, 2018.

3 Terms and definitions

For the purposes of this standard, the following definitions shall apply:

3.1
active ingredient
part of the product that provides the pesticidal action

3.2
maximum residue limit (MRL)
maximum concentration of a pesticide residue (expressed as mg/Kg) by either Codex Alimentarius Commission or national competent authority to be legally permitted in or on food commodities and animal feeds. MRLs are based on GAP data and foods derived from commodities that comply with the respective MRLs are intended to be toxicologically acceptable

3.3
pesticide
any substance or product, or mixture thereof, including active ingredients, adjuvants and pesticide formulations, intended to control, prevent, destroy, repel or mitigate directly or indirectly, any pest. The term shall be understood to include insecticide, fungicide, bactericide, nematicide, herbicide, molluscicide, avicide, rodenticide, plant regulator, defoliant, desiccant and the like

3.4
pesticide residue
any specified substance in food, agricultural commodities, or animal feed resulting from the use of a pesticide. The term includes any derivatives of a pesticide, such as conversion products, metabolites, reaction products, and impurities considered to be of toxicological significance

3.5
residue definition
the spectrum of compounds to be analyzed which may include the parent compound, metabolites, isomers, reaction products and/or degradants

4 Maximum Residue Limits

4.1 coffee beans

active ingredient	MRL (mg/Kg)
chlorpyrifos	0.05
dimethoate	0.01
fluazifop-p-butyl	0.10
glyphosate	1.00

4.2 eggplant

active ingredient	MRL (mg/Kg)
abamectin	0.05
carbofuran	0.10
chlorantraniliprole	0.30
chlorfluazuron	2.00
chlorpyrifos	0.20
difenoconazole	0.60
dinotefuran	2.00
dimethoate	1.00
esfenvalerate	1.00
fenitrothion	0.20
flonicamid	2.00
flubendiamide	1.50
imidacloprid	0.20
indoxacarb	0.05
malathion	0.50
spinosad	0.20
tebuconazole	0.02
trifloxystrobin	0.01
thiodicarb	0.50

4.3 garlic

active ingredient	MRL (mg/Kg)
dithiocarbamates	0.50

4.4 onion

active ingredient	MRL (mg/Kg)
abamectin	0.01
azoxystrobin	10.00
carbofuran	0.10
chlorfluazuron	2.00
chlorothalonil	0.50
diazinon	0.05
difenoconazole	0.01
fluazifop-p-butyl	0.50
fluazinam	0.10
flubendiamide	0.20
malathion	1.00

4.5 tomato

active ingredient	MRL (mg/Kg)
abamectin	0.02
carbaryl	5.00
chlorothalonil	5.00
cyazofamid	2.00
difenoconazole	0.60
dinotefuran	2.00
fenitrothion	0.20
flubendiamide	0.20
dithiocarbamates	0.20
methomyl	1.00
profenofos	2.00
tebuconazole	0.02
trifloxystrobin	0.01

4.6 stringbeans

active ingredient	MRL (mg/Kg)
chlorantraniliprole	0.20
flubendiamide	0.50
indoxacarb	0.05

4.7 bittergourd

active ingredient	MRL (mg/Kg)
chlorantraniliprole	0.60
flubendiamide	0.30
indoxacarb	0.05
tebuconazole	0.008
trifloxystrobin	0.01

5 Sampling and analysis

Analytical and sampling methods to be used for ascertaining conformance to the established limits shall be in accordance with relevant text by the Codex Alimentarius Commission and/or the competent authority for the commodity.

CACGL 33-1999 Recommended Methods of Sampling for the Determination of Pesticide Residues for Compliance with MRLs

CACGL 40-1993 Guidelines on Good Laboratory Practice in Pesticide Residue Analysis

CACGL 41-1993 Portion of Commodities to which Maximum Residues Limits Apply and which is Analyzed

CACGL 56-2005 Guidelines on the Use of Mass Spectrometry (MS) for Identification, Confirmation and Quantitative Determination of Residues

CACGL 84-2012 Principles and Guidance on the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups

CACGL 90-2017 Guidelines on Performance Criteria for Methods of Analysis for the Determination of Pesticide Residues in Food and Feed

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