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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20085-2024

Equipment for crop protection - Vocabulary

植物保护机械 词汇

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 20085-2006 "Vocabulary of Plant Protection Machinery". Compared with GB/T 20085-2006, in addition to the structural adjustment in addition to editorial changes, the main technical changes are as follows.

a) Added pesticide containers (see 3.1.2), ready-to-use formulations (see 3.1.4), carriers, diluents (see 3.1.6), handling areas, spraying areas (see 3.1.10), target (see 3.1.11), application equipment (see 3.1.16), inhalation dosing device, introduction drug hopper (see 3.2.9.4), suction Inlet dosing pipe (see 3.2.9.5), closed delivery system (see 3.2.9.6), cleaning device (see 3.2.9.9), flushing device (see 3.2.9.10), flushing water tank (see 3.2.9.11), flow meter filter (see 3.2.10.5), spray bar filter (see 3.2.10.6), Particle flow (see 3.4.1.6), manual mixing (see 3.5.1.7), remixing (see 3.5.1.8), soil injection (see 3.5.2.3), trees injection (see 3.5.2.4), tree injection machine (see 3.5.2.6), canopy divider (see 3.5.4), floating nozzle sprayer (see 3.5.5), effective width (see 3.6.1.2), broadcast application (see 3.6.2.5), local application (see 3.6.2.6), strip application (see 3.6.2.7), base application (see 3.6.2.8), spot application (see 3.6.2.9), foliar application (see 3.6.2.10), soil application (see 3.6.2.11), directional spraying (see 3.6.2.12), spatial spraying (see 3.6.2.13), variable spraying (see 3.6.2.14), high volume spraying large volume application (see 3.6.2.15), medium volume application (see 3.6.2.16), low volume application (see 3.6.2.17), very low volume application medicine (see 3.6.2.18), ultra-low volume application (see 3.6.2.19), efficacy (see 3.7.1.1), longitudinal distribution (see 3.7.1.4), vertical distribution cloth (see 3.7.1.5), mist flow classification (see 3.7.2.1), mist flow penetration (see 3.7.2.4), mist flow deposition (amount) (see 3.7.2.9), evaporation Drift (see 3.7.2.11), potential spray drift (see 3.7.2.12), drift prevention (see 3.7.2.13), spray drift prevention technology (see 3.7.2.14), Drift nozzle (see 3.7.2.15), spray drift deposition (amount) (see 3.7.2.16), dischargeable liquid volume (see 3.7.2.18), dischargeable flushing liquid

concentration (see 3.7.2.19), blocked liquid volume, non-refluxed liquid volume (see 3.7.2.20), total residual liquid volume (see 3.7.2.21), pesticide content Terms and definitions for cleaning devices (see 3.7.2.22) and pressure drops (see 3.7.2.23);

b) The terms and definitions of single-tube sprayer, pedal sprayer, intermittent sprayer, slide-tube sprayer and hand-operated duster have been deleted (see 3.4.9, 3.4.10, 3.4.11, 3.4.12, 4.1.10 of the 2006 edition).

This document is modified to adopt ISO 5681:2020 "Vocabulary of plant protection machinery".

The technical differences between this document and ISO 5681:2020 and their reasons are as follows.

--- Considering my country's national conditions, targeted spray (see 3.2.2.15), drift spray (see 3.2.2.16), multi-head spray (see 3.2.3.36), tangential liquid inlet nozzle (see 3.2.3.50), power sprayer (see 3.2.4.45), electric sprayer (see 3.2.4.46), hand-held electric centrifugal sprayer (see 3.2.4.47), spray powder sprayer (see 3.2.4.48), backpack (pneumatic) sprayer powder machine (see 3.2.4.49), electrostatic spray machine (see 3.2.4.50), normal temperature fog machine (see 3.2.4.51), plunger pump (see 3.2.5.11), Powder feeder (see 3.3.2.3), film powder spraying tube (see 3.3.2.4), film particle spraying tube (see 3.4.2.4), jet mixer (see 3.5.1.9) Terms and definitions of applicators (see 3.5.3);

--- Changed the definition of droplet volume fraction diameter (see 3.2.1.11), compared with volume median diameter (see 3.2.1.8) and number median diameter the expression of diameter (see 3.2.1.9) remains consistent.

1 Scope

This document defines terms and their definitions related to pesticide application equipment commonly used in plant protection.

This document applies to the relevant terms and definitions used in plant protection activities such as pesticide application.

2 Normative references

This document has no normative references.

3.1 General terms

3.1.1

A substance or microorganism (including virus), or a mixture of two or more substances or microorganisms thereof, and their preparations A preparation provided to the user in a prepared form and intended to protect plants or plant products from pests or to prevent

such pests it has an effect on the life process of plants that is different from that of nutrients, which is beneficial to the preservation of plant products and kills undesirable plants or Parts of plants that inhibit or promote their growth.

3.1.2

A general term for pesticide (3.1.1) packaging.

Note: Such as cans, bottles, bags or boxes, etc.

3.1.3

formulated product

Finished pesticides purchased by users (3.1.1).

3.1.4

Preparations that do not require dilution (3.1.3).

3.1.5

Active ingredient

The main biologically active substance that plays a specific role.

3.1.6

Carrier

diluent

Substances used to dilute the active ingredient (3.1.5) and to facilitate metering and delivery.

3.1.7

Treatment

Operations involving the use of pesticides (3.1.1) to produce biological effects.