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Terminology and Definitions for Applications of Crop or Forestry Production and Protective Agents



American Society of Agricultural and Biological Engineers

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Developed by the ASAE Agricultural Chemical Application Committee; approved by the PM Division Standards Committee; adopted by ASAE December 1969; reconfirmed December 1974; revised March 1980; reconfirmed December 1984, December 1989; revised March 1991; reaffirmed December 1995, January 2001, December 2001, February 2003; revised February 2007; revised July 2012; reaffirmed October 2016.

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1 Scope

1.1 The purpose of this Standard is to establish uniform definitions used in the application of crop or forestry production and protection agents. The definitions are adopted from related fields where applicable.

1.2 The terms are appropriate for any agricultural, forestry, or vector control application. Units in parentheses following a definition are meant as typical and do not include all possibilities available for the term.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies unless noted. For undated references, the latest approved edition of the referenced document (including any amendments) applies.

ASTM E609-10, Standard Terminology Relating to Pesticides

ASTM E799-03 (2009), Standard Practice for Determining Data Criteria and Processing for Liquid Drop Size Analysis

ASTM E1620-97(2004), Standard Terminology Relating to Liquid Particles and Atomization

ASTM E1102-91(2009), Standard Terminology Relating to Agriculture Chemical Application

ASAE S572.1, Spray Nozzle Classification by Droplet Spectra

ISO 5681:1992. Equipment for crop protection – Vocabulary

3 General chemical terms and characteristic measurements

3.1 Adjuvant: An ingredient added to a pesticide formulation to improve its performance.

3.2 Aerosol: Suspended particles or droplets are of size small enough to move with the air indefinitely, exhibiting little or no settling from the air column as a result of gravitational forces.