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**901:5-1-01 Labeling requirements for fertilizer.**

- (A) No manufacturer or distributor of fertilizer, ~~as defined in section 905.31 of the Revised Code~~, shall use any term which is defined in the ~~current~~ official publication of the ~~"Association of American Fertilizer Control Officials"~~ [association of American plant food control officials as adopted in rule 901:5-1-02](#) on the label of any fertilizer unless the fertilizer complies with the standard for such ~~fertilizer terms~~ which ~~is~~ are stated in said publication.
- (B) No manufacturer or distributor of a fertilizer ~~mixture~~ shall include the name of any plant nutrient element:
- (1) Other than nitrogen, phosphorus and potassium on the label of a fertilizer other than a specialty fertilizer, unless the percentage guaranteed equals or exceeds the percentage required in the following table:

ELEMENT	MINIMUM PERCENTAGE REQUIRED
Calcium (Ca)	1.00
Magnesium (Mg)	0.50
<del>-</del> Sulfur (S)	1.00
Boron (B)	0.02
Chlorine (Cl)	0.10
Cobalt (Co)	0.0005
Copper (Cu)	0.05
Iron (Fe)	-0.10
Manganese (Mn)	0.05
Molybdenum (Mo)	0.0005
<a href="#">Nickel (Ni)</a>	<a href="#">0.0010</a>
Sodium (Na)	0.10
Zinc (Zn)	0.05

- (2) Which is not named in paragraph (B)(1) of this rule on the label of any such ~~mixture~~[fertilizer](#).
- (C) Each manufacturer or distributor of any fertilizer ~~mixture~~ which bears on its label the name of any element which is listed in paragraph (B) of this rule, shall:
- (1) List each element which is mentioned on the label and the percentage guarantee in the same order in which such elements are listed in paragraph (B) of this rule;
- (2) Furnish the director of agriculture the label and directions for use of any fertilizer for which the director requests such information;
- (3) Include warning or caution statements on the label for any fertilizer which contains:
- (a) Three one-hundredths per cent or more of boron in water soluble form;
- (b) One one-thousandths per cent or more of molybdenum.

**901:5-1-02 [Definitions.](#)**

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As used in this Chapter:

(A) All terms which are defined in section 905.31 of the Revised Code are incorporated into this Chapter.

(B) The terms which are defined in the official publication of the association of American plant food control officials (2017) are hereby incorporated into this Chapter. Interested individuals may locate a copy of the official publication by visiting [www.aapfco.org](http://www.aapfco.org).

## **901:5-1-03      ~~Labeling requirements for fertilizer mixtures.~~**

~~No person shall distribute any fertilizer mixture if the label includes the term:~~

~~(A) "Organic" unless the mixture includes naturally occurring substances generally recognized as hydrogen compounds of carbon and their derivatives;~~

~~(B) "Organic Nitrogen" unless:~~

~~(1) The mixture includes naturally occurring substances or synthetic compounds of which at least sixty percent of the total nitrogen is water insoluble nitrogen; and~~

~~(2) The water insoluble nitrogen content of the mixture shall be not less than fifteen percent of the total nitrogen.~~

## **901:5-1-04      Requirements for sales of fertilizer from bulk storage facilities.**

(A) No person shall distribute any fertilizer ~~or fertilizer mixture~~ from any bulk storage facility unless such facility provides access for sampling each fertilizer ~~or mixture of fertilizers~~ stored therein.

(B) No person shall distribute a ~~mixture of~~ fertilizer ~~as defined in section 905.31 of the Revised Code~~ from any bulk storage facility to more than one consumer unless he:

(1) Labels the area where the fertilizer is stored ~~storage facility~~ to show the grade of the ~~mixture~~ fertilizer;

(2) Shows the grade of the ~~mixture~~ fertilizer on each invoice for shipments therefrom;

(C) Each manufacturer or distributor of fertilizer ~~or fertilizer mixtures~~ shall include the date of delivery on each shipping invoice or delivery ticket for each shipment of bulk fertilizer to ~~a non-licensee~~ an individual who is not licensed pursuant to ORC 905.32.

## **901:5-1-05      Weighing of fertilizer and requirements for shipping invoice.**

(A) No person shall distribute any fertilizer ~~or mixture of fertilizers~~ other than by net weight, unless the director has approved the device which is used to measure the fertilizer.

(B) A meter may be used to deliver fertilizer by ~~quantity~~ volume provided that each individual meter so used has been tested and approved by the director.

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(C) Each distributor shall include on the shipping invoice or delivery ticket for any fertilizer which is delivered by ~~quantity~~volume:

- (1) ~~Quantity~~Volume of fertilizer delivered;
- (2) The calculated net weight derived from the ~~quantity~~volume delivered; and
- (3) The conversion factor used to derive the calculated net weight from the ~~quantity~~volume delivered.

**901:5-1-06 What constitutes mislabeled fertilizer.**

(A) ~~Any fertilizer as defined in section 905.31 of the Revised Code~~Fertilizer material is mislabeled if the director of agriculture determines after analysis of said fertilizer material that the percentage of total nitrogen, available phosphoric acid (P<sub>2</sub>O<sub>5</sub>), or soluble potash (K<sub>2</sub>O) in the fertilizer is below the allowances permitted in the table found in paragraph (B) of this rule:~~more than one-half per cent point below the percentage-guaranteed;~~

(B)

Per cent allowances of fertilizer materials.

<u>Guarantee per cent</u>	<u>Nitrogen (N)</u>	<u>Available phosphate (P<sub>2</sub>O<sub>5</sub>)</u>	<u>Soluble potash (K<sub>2</sub>O)</u>
<u>04 or less</u>	<u>0.49</u>	<u>0.37</u>	<u>0.41</u>
<u>05</u>	<u>0.51</u>	<u>0.67</u>	<u>0.43</u>
<u>06</u>	<u>0.52</u>	<u>0.67</u>	<u>0.47</u>
<u>07</u>	<u>0.54</u>	<u>0.68</u>	<u>0.53</u>
<u>08</u>	<u>0.55</u>	<u>0.68</u>	<u>0.60</u>
<u>09</u>	<u>0.57</u>	<u>0.68</u>	<u>0.65</u>
<u>10</u>	<u>0.58</u>	<u>0.68</u>	<u>0.70</u>
<u>12</u>	<u>0.61</u>	<u>0.69</u>	<u>0.79</u>
<u>14</u>	<u>0.63</u>	<u>0.70</u>	<u>0.87</u>
<u>16</u>	<u>0.67</u>	<u>0.70</u>	<u>0.94</u>
<u>18</u>	<u>0.70</u>	<u>0.71</u>	<u>1.01</u>
<u>20</u>	<u>0.73</u>	<u>0.72</u>	<u>1.08</u>
<u>22</u>	<u>0.75</u>	<u>0.72</u>	<u>1.15</u>
<u>24</u>	<u>0.78</u>	<u>0.73</u>	<u>1.21</u>
<u>26</u>	<u>0.81</u>	<u>0.73</u>	<u>1.27</u>
<u>28</u>	<u>0.83</u>	<u>0.74</u>	<u>1.33</u>
<u>30</u>	<u>0.86</u>	<u>0.75</u>	<u>1.39</u>
<u>32</u>	<u>0.88</u>	<u>0.76</u>	<u>1.44</u>

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Per cent allowances of fertilizer materials.

<u>34</u>		<u>0.79</u>	<u>1.46</u>
<u>36</u>		<u>0.83</u>	<u>1.49</u>
<u>38</u>		<u>0.86</u>	<u>1.51</u>
<u>40</u>		<u>0.90</u>	<u>1.54</u>
<u>42</u>		<u>0.93</u>	<u>1.56</u>
<u>44</u>		<u>0.96</u>	<u>1.58</u>
<u>46</u>		<u>1.00</u>	<u>1.61</u>
<u>48</u>		<u>1.07</u>	<u>1.66</u>
<u>50</u>		<u>1.10</u>	<u>1.68</u>
<u>52</u>		<u>1.10</u>	<u>1.68</u>
<u>54</u>			<u>1.70</u>
<u>56</u>			<u>1.73</u>
<u>58</u>			<u>1.75</u>
<u>60</u>			<u>1.78</u>
<u>62</u>			<u>1.80</u>

For N guarantees above 32% the allowance shall be 0.88.

For P<sub>2</sub>O<sub>5</sub> guarantees above 52% the allowance shall be 1.10.

For K<sub>2</sub>O guarantees above 62% the allowance shall be 1.80.

For guarantees not listed, calculate the appropriate allowance by interpolation.

- ~~(B)~~(C) Any mixture of fertilizers is mislabeled if the director determines after analysis of the mixture that:
- (1) The percentage of total nitrogen, available phosphoric acid (P<sub>2</sub>O<sub>5</sub>), or soluble potash (K<sub>2</sub>O) in the mixture is more than ten per cent below the percentage guaranteed or more than two percentage points below the percentage guaranteed, whichever is the smaller; or
  - (2) The total of the percentages determined for the three primary plant nutrients is less than ninety-seven per cent of the sum of the guarantees for these three nutrients.