

JAY-MAR, INC.

JUSTICE

Compatibility and Buffering Agent

DIRECTIONS FOR USE AS A COMPATIBILITY AGENT

For improving compatibility and stability of liquid fertilizer and pesticide mixture, use **JUSTICE** by one of the following procedures:

- No. 1: Add recommended quantity of **JUSTICE** to the liquid fertilizer or water in the tank and mix completely. Maintain agitation while adding the pesticide. Mix thoroughly.
- No. 2: Add required amount of **JUSTICE** and pesticide to the tank containing the fertilizer and mix completely.
- No. 3: Prepare a premix of recommended rate of pesticide and **JUSTICE** and add to the tank containing the fertilizer and mix thoroughly.

Procedure No. 1 and 2 are appropriate for most situations while No. 3 is recommended where compatibility is still inadequate due to the application of 2 or 3 different pesticides in a single source of liquid fertilizer. Procedure No. 3 is also suggested for mixtures with high phosphate grade liquid fertilizers, wettable powders and flowable pesticide formulations.

NOTE: Agitation in the tank during application is recommended for certain liquid fertilizer-pesticide combinations and water-pesticide combinations. If the spray tank has been allowed to stand, agitate before application. Too much agitation might result in foaming. This can be avoided by moderate or occasional agitation of the spray mixture or by using a defoamer.

RATES

LIQUID NITROGEN FERTILIZERS AND PESTICIDES:
1-3 pints per 100 gallons of fertilizer.

LIQUID FERTILIZER AND PESTICIDES:
2-3 pints per 100 gallons of fertilizer.

LIQUID FERTILIZER AND MULTIPLE PESTICIDE COMBINATIONS:
1/2 to 3 pints per 100 gallons of water.

MULTIPLE PESTICIDE COMBINATIONS IN WATER:
1/2 to 3 pints per 100 gallons of water.

DIRECTIONS FOR USE AS A BUFFERING AGENT

Many pesticides tend to hydrolyze in alkaline solutions, resulting in less effective pest control. Decomposition normally occurs at a fast rate above pH 7. Even for those compounds undergoing slow hydrolysis, adjustment of pH to an acid media would have a beneficial effect in minimizing decomposition.

Use 1/8 to 1 1/4 pints of **JUSTICE** per 100 gallons of water to lower the pH of alkaline pesticide spray solutions. See chart for recommendations. The optimum use rate of **JUSTICE** may vary under extremely alkaline conditions or if desired reduction of pH is slight. **JUSTICE** should be added to the water in the spray tank with good agitation prior to adding pesticide. Consult local extension agent for recommended spray tank pH.

IMPORTANT - These DIRECTIONS FOR USE do not constitute a recommendation to use any pesticide in any manner contrary to the pesticide label. Always read the pesticide label thoroughly and use it in accordance with its information.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use.

JUSTICE pH recommended use chart

Desired pH	Starting pH		
	9	8	7
8	2	0	0
7	4	2	0
6	16	12	8
5	20	16	12

oz. of Justice per 100 gallons of water

This chart is a guide to the approximate quantity of **JUSTICE** required to reduce the pH of 100 gallons of water.

Instructions for use of chart:

- 1 Test the pH of the water to be used in your tank mix by using the pH test kit.
- 2 Determine the desired pH for the pesticide to be tank mixed. Typically, spray tank mixtures are most effective at pH's between 6 and 7.
- 3 Determine the approximate quantity of **JUSTICE** to be added to each 100 gallons of the tank mix by reading down on the chart from the starting pH to the desired pH on the left side.

STOP
READ LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

CAUTION

Avoid contact with eyes and skin. In case of eye contact, flush eyes with water for at least 15 minutes. If irritation persists, get medical attention. Wash skin thoroughly with soap and water. Harmful if swallowed. If taken internally, drink plenty of water and call a physician. Do not inhale mist or vapors. Use adequate ventilation.

GENERAL INFORMATION

JUSTICE is an effective blend of agents which acts as a buffering agent and a compatibility agent to improve the stability of liquid fertilizers mixed with pesticides and/or micronutrients. **JUSTICE** is used when a simultaneous application of liquid fertilizer and liquid or dry pesticide is desired. **JUSTICE** is also recommended when two different pesticides are to be applied in a single source of liquid fertilizer or water.

SINCE FORMULATIONS DIFFER AND RATES VARY, CHECK COMPATIBILITY OF VARIOUS PESTICIDE, MICRONUTRIENT AND FERTILIZER MIXTURES BEFORE MIXING LARGE QUANTITIES.

To check, add 1/4 teaspoon **JUSTICE** to 1 pint fertilizer in a jar and add the recommended amount of pesticide (1/4 teaspoon per pint is equivalent to 2 pints per 100 gallons).

Shake well after each addition to insure adequate mixing. Let stand for 30 minutes. Dispersion should remain uniform for 30, preferably 60 minutes. If separation, formation of sludge, or any other precipitates are observed, repeat testing using 3/8 teaspoon **JUSTICE** (equivalent to 3 pints **JUSTICE** per 100 gallons). If the compatibility is still not sufficient, prepare a premix of **JUSTICE** and the pesticide before adding to the fertilizer.

ACTIVE INGREDIENTS

Phosphate esters of polyoxyethanol,
alcohol and phosphoric acid
Inert ingredients

95.0%
5.0%

TOTAL

100.0%

MANUFACTURED BY
JAY-MAR, INC.

P.O. Box 429 • Plover, WI 54467-0429
(715) 341-3445