



SPECIMEN LABEL



NONIONIC OIL CONCENTRATE/BUFFERING ADJUVANT

*ACTIVE INGREDIENTS:

Proprietary blend of Light to Mid Range Paraffin Oil, Polyol fatty acid esters, Polyethoxylated Esters thereof, Ethoxylated Alkyl Aryl Phosphate

Esters.....	99.00%
Components ineffective as adjuvant.....	1.00%
TOTAL	100.00%

Surfactant Content:.....20.00%
 Petroleum Oil Min. Unsulfonated Residue – 92%
 All ingredients are accepted for use under CFR 40, 180.1001 (c).
 Patent Numbers 5,178,795 and 5,393,791

KEEP OUT OF REACH OF CHILDREN

CAUTION

MAY CAUSE EYE INJURY. Do not get in eyes. In case of contact with eyes, wash for 15 minutes with plenty of water, then get medical attention.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

SN 0405/1205

NET CONTENTS: 2.5 Gallons (9.46 Liters)
 30 Gallons (113.55 Liters)
 55 Gallons (208.18 Liters)
 250 Gallons (946.25 Liters)

MANUFACTURED FOR
 HELENA CHEMICAL COMPANY
 225 SCHILLING BOULEVARD, SUITE 300
 COLLIERVILLE, TN 38017

PRECAUTIONARY STATEMENTS

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

Avoid contact with formulated product. Do not take internally. Avoid contact with or inhalation of the spray mist. Follow all precautionary statements on the accompanying pesticide(s) label.

WHAT TO DO IN CASE OF CONTACT:

IF IN EYES: Flush eyes with clean water for 15 minutes. Immediately call a physician.

IF SWALLOWED: Do not induce vomiting. Immediately call a physician.

IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

IF INHALED: Move to fresh air and call a physician if irritation develops or persists.

If contact is e with the spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide(s) label(s).

STORAGE AND DISPOSAL

Store in original container only. Keep container tightly closed, do not allow water to be introduced into the contents of this container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and add rinsate to spray tank, then offer for recycling or reconditioning, or puncture and dispose of according to state and local authorities. If burned, stay out of smoke.

For help in chemical emergencies involving spill, leak, fire or exposure call toll free 1-800-424-9300.

GENERAL INFORMATION

PENETRATOR® PLUS is a nonionic blend of special surfactants, buffering agents, and a highly refined spray oil and is designed for use with a broad range of pesticides. Subject to the cautionary statements set forth in the

Directions for Use, PENETRATOR® PLUS may be used with pesticides and/or fertilizer products. The addition of PENETRATOR® PLUS to a spray tank improves pesticide application by modifying the wetting and deposition characteristics of the spray solution resulting in a more even and uniform spray deposit and by adjusting the pH of alkaline waters and minimizing hydrolysis of pesticides which tend to decompose in alkaline spray solutions. PENETRATOR® PLUS can positively affect pesticide spray application and pesticide efficacy. Optimum application and effects, however, can be influenced by the crop, pest, spray equipment, spray volume, pressure, droplet size, spray mixture, and environmental factors. Consequently, it is recommended that careful observations of the spray deposit be made and adjuvant concentrations be adjusted accordingly.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. Do not spray pesticides if conditions of thermal inversion exist, or if wind direction and speed may cause spray drift onto adjacent areas. With both aerial and ground applications, the use of a drift control or spray deposition additive (in accordance with pesticide label directions) may reduce the potential for drift to occur. Drift minimization is the responsibility of the applicator. Consult your local and state agricultural authorities for information regarding avoiding or minimizing spray drift.

DIRECTIONS FOR USE

FOR USE WITH PRODUCTS REGISTERED FOR: AGRICULTURAL, FORESTRY, INDUSTRIAL, MUNICIPAL, NON-CROPLAND, ORNAMENTAL, RIGHTS-OF-WAY, TURF AND OTHER USES.

For use with any pesticide that recommends the use of an oil concentrate or crop oil concentrate spray adjuvant. The addition of an adjuvant to some pesticides or pesticide tank mix combinations may cause phytotoxicity to the foliage and/or fruit of susceptible crops. Prior to the application of PENETRATOR® PLUS in spray tank mixes and/or prior to the application of PENETRATOR® PLUS with a pesticide and/or fertilizer where an oil or oil adjuvant is not specifically recommended but not prohibited by the product's label, the user or application advisor must have experience with the combination under similar environmental and crop cultural conditions and/or have conducted a phytotoxicity trial under similar environmental and crop cultural conditions.

PENETRATOR® PLUS may be applied by Ground, CDA, and Aerial spray equipment. In most cases, use enough PENETRATOR® PLUS to allow for uniform wetting and deposition of the spray onto leaf surfaces without undue runoff or to adjust spray pH to the optimum range.

WHEN USED FOR WETTING, SPREADING, AND PENETRATION:

GROUND: Use 4 - 8 pints per 100 gallons of spray solution or follow the pesticide label recommendations if higher or lower volumes are required. Do not use less than 0.50% v/v concentration.

AERIAL, LOW VOLUME, CDA: Use 6 - 8 fl. ozs. in 1 - 5 gallons water per acre or follow the pesticide label recommendations if higher or lower volumes are required.

WHEN USED AS A BUFFERING AGENT: When PENETRATOR® PLUS is used as a buffering agent, a minimum of 1% v/v concentration is recommended. Generally, optimum pesticide performance is achieved when spray solution is in the 4 - 7 pH range or slightly acidic. The chart below illustrates the pH reduction performance of PENETRATOR® PLUS.

pH REDUCTION ACTIVITY

pH 10 Water

Pints/100 Gal.	% Volume	Final pH
0	0.00	10.0
2	0.25	9.8
4	0.50	8.7
6	0.75	6.8
8	1.00	5.8
12	1.50	5.5
14	1.75	5.3
16	2.00	5.2

The use of a pH measuring device is recommended. Final spray solution pH should be in the 4 - 7 range.

NOTE: The above use recommendations are considered to be adequate for most uses. Some pesticides, however, may require higher or lower rates for optimum effect. Follow the pesticide label directions when this occurs.

CAUTION: Do not mix with oxidizing agents unless oxidizing agents are in solution. PENETRATOR® PLUS will not economically lower the pH of a solution containing an alkaline buffer.

MIXING

Prior to any pesticide application, all spray mixing and application equipment must be cleaned. Carefully observe all cleaning directions on the pesticide label.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

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Fill spray tank one-half full with water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence.

1. Dry flowables or water dispersible granules
2. Wettable powders
3. Flowables
4. Solutions
5. Emulsifiable concentrates

and continue filling. Add PENETRATOR® PLUS last and continue agitation.

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale-Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or the seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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