

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
48222-5

DATE OF ISSUANCE
SEP 29 1995

NOTICE OF PESTICIDE: REGISTRATION
 REREGERISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

Super Insecticidal Soap Concentrate

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

PM-14
A.H.J. Rajamannan
AGRO-K Corporation
36-37th Street, N.E.
Minneapolis, MN 55421

Reg # 48222-5

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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)(5) provided that you:

1.. Make the labeling changes listed below before you release the product for shipment:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 48222-5".
- b. The signal word for this product is "DANGER" based on the results of the primary eye irritation study submitted to support the reregistration of EPA Reg. No. 36488-31. Because you have cited this data to support registration of your product, you must change the signal word on your label to "DANGER."
- c. The precautionary statements must state:

"Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse."

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

M. J. Edwards

DATE
SEP 29 1995

d. The statements of practical treatment must state:

"If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention."

2. Delete "Citrus Aromatics" from the INERT INGREDIENTS of the Ingredient Statement. The Ingredient Statement must read as follows:

ACTIVE INGREDIENT	BY WT.	} - <i>lined correctly on original</i>
Potassium Salts of Fatty Acids:.....	25.00%	
INERT INGREDIENTS:.....	75.00%	
TOTAL:.....	100.00%	

3. Submit one copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosures

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Kill plant pests such as aphids, caterpillars,
leafhoppers, mealybugs, spider mites, thrips,
whiteflies & other listed insects on indoor plants,
outdoor ornamental plants, flowers, shrubs & trees,
crops, garden vegetables, fruits & trees with

AGRO•K
CORPORATION
(Logo)

Super
Insecticidal
Soap

ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP. 29 1995

CONCENTRATE

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

48222-5

FOR HOME OR COMMERCIAL USE

ACTIVE INGREDIENT	BY WT.
Potassium Salts of Fatty Acids	25.0% ✓
INERT INGREDIENTS:	
Citrus Aromatics	0.5%
Other inerts	74.5%
TOTAL	100.0%

Keep out of reach of children.
WARNING - AVISO

Si usted no entiende la etiqueta, busque a
alguien para que se la explique a usted en
detalle. (If you do not understand the label,
find someone to explain it to you in detail.)

See side & back panels for additional
precautionary statements.

NET CONTENTS 16 FL. OZ. **

** Alternative sizes include: 12 FL. OZ., 24 FL. OZ., 32 FL. OZ., 1 GAL., 2.5 GAL.,
5 GAL., 20 GAL., 25 GAL., 40 GAL., 50 GAL. & 55 GAL.

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**Super Insecticidal Soap
CONCENTRATE**

DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to the uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides, 40 CFR part 170. The WPS applies when the product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

GENERAL INFORMATION

This product controls insect pest species on contact, including all kinds of aphids, mealy bugs, psyllids, whiteflies and scale crawlers, adelgids, leaf hoppers, plant hoppers and spittlebugs, lace bugs and plant bugs, earwigs, thrips, caterpillars, sawfly larvae, and spider mites on vegetables, fruits, tree nuts, shrubs, trees, foliage plants and flowers. This product can be applied up to day of harvest.

READ ENTIRE LABEL. USE IN STRICT ACCORDANCE WITH LABEL DIRECTIONS & PRECAUTIONS.

MIXING AND APPLICATION

Shake CONCENTRATE before use. Mix with soft water whenever possible and only use freshly mixed solutions. FOR COMMERCIAL APPLICATIONS: check water for high mineral content which may affect the solubility of this product. When water exceeds 300 ppm (or 17.5 grains) of hardness it should be treated with 8 to 32 fl. oz. of an anionic buffering and conditioning (softening) agent per 100 gallons of spray before addition of this product. Begin by adding 8 fl. oz. (1/2 pint) of conditioning agent per 100 gallons of spray. Perform a preliminary test on a 1 quart sample of conditioned water by addition of 4 tsp of product. If curd, surface scum or excessive cloudiness is observed, add additional conditioning agent (in 4 fl. oz. increments, up to a limit of 2 pints or 32 fl. oz. per gallon) until product addition produces a uniform, light milky mixture. Use of conditioned water reduces the probability of phytotoxicity, but applicators should test a few sample plants under local conditions before full scale application whenever the sensitivity of plant cultivars is unknown.

Apply Super Insecticidal Soap with all types of hand or power sprayers. Make certain that spray tanks, hoses, nozzles and other sprayer parts are thoroughly clean and uncontaminated with other pesticides before use. Read and follow the instructions for the type of sprayer you use. A defoaming agent may be required in sprayers equipped with an agitator. Make application at first sight of insect pests, preferably when pests are newly hatched, and repeat every 5 to 7 days or at time intervals recommended below if pests persist. Avoid more than three consecutive spray treatments with this product unless you have thoroughly rinsed treated foliage to remove any accumulating product residues.

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ALTERNATE PLACEMENT OF COMBINED USE RESTRICTIONS - See following HOME USE and COMMERCIAL USE text for specific restrictions:

GENERAL USE RESTRICTIONS: Do not use on drought-stressed plants, new transplants, recently rooted cuttings or sensitive new growth (particularly of conifers). Never apply to plants while they are exposed to full sun; spray in early morning or in evening when temperatures are below 85°C. Some plant varieties are more sensitive than others, particularly after multiple applications. Test a few inconspicuous leaves of BALD CYPRESS, BEGONIAS, CAMELLIAS, CHRYSANTHEMUMS, CUCURBITS, DELICATE FERNS, FUCHSIAS, GRAPE & OTHER IVIES, IMPATIENS, PALMS, PEPPERS, POINSETTIAS & OTHER EUPHORBIAS, NARROW LEAF EVERGREENS, SCHEFFLERA AND SOME SUCCULENTS, and flowers of AFRICAN VIOLET, AGERATUM, AZALEA, BEGONIA, CHRYSANTHEMUM, DAHLIA, GERANIUM, IMPATIENS, LILY, MARIGOLD, PANSY, PETUNIA, SALVIA, SNAPDRAGON, VINCA AND ZINNIA for plant sensitivity before full scale application. If wilting occurs within a few hours on test leaves (or flowers), rinse treated plants with clean water. Do not use on BLEEDING HEART, CROWN OF THORNS, GARDENIA, HORSE CHESTNUT, JADE PLANT, JAPANESE MAPLE, LANTANA, MOUNTAIN ASH OR SWEETPEAS.

ALTERNATE USE & RESTRICTIONS WORDING FOR PRODUCTS PACKAGED FOR HOME USE ONLY

To control most insect pests, make up a fresh 1% SPRAY SOLUTION (% active). Use 1 part of Super Insecticidal Soap Concentrate to 25 parts water, or 10 TBS (=5 oz.) of CONCENTRATE in 1 gallon water).

FOR HOME USE

Treat INDOOR PLANTS with 1% spray solution for control of APHIDS, MEALYBUGS, SCALE CRAWLERS, SPIDER MITES & WHITEFLIES. Make sure that spray penetrates through dense foliage to wet all infested surfaces. Examine plants for aphids after two days and respray if aphids are still present. Spray at weekly intervals if other pests are still present. Limit application, however, to three consecutive spray treatments unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Treat AFRICAN VIOLETS, SUCCULENTS OR CACTUS for control of ROOT MEALYBUGS by drenching pots of infested plants with a tepid 0.8% solution (2 TBS. concentrate per quart of water). Some plant varieties are sensitive to insecticidal soaps! Test a few leaves (and/or flowers) of African violet, azaleas, begonias, chrysanthemums, delicate ferns, fuchsias, geraniums, impatiens, lilies, ornamental ivies, palms, poinsettias or some succulents to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Do not use on gardenia or jade plant.

Treat ORNAMENTAL TREES, SHRUBS & PLANTS in and around the home with 1% spray solution for control of these insect pests: ADELGIDS, APHIDS, IMPORTED CABBAGE WORMS, CRICKETS, EARWIGS, FLEA BEETLES, GRASSHOPPERS, GREEN STINK BUGS, GYPSY MOTH CATERPILLARS, HARLEQUIN BUGS, LACEBUGS, LEAFHOPPERS, MEALYBUGS, PLANT BUGS, PSYLLIDS, ROSE SLUGS, SAWFLIES, SCALE CRAWLERS, SPIDER MITES, SQUASH BUGS, TENT CATERPILLARS, THRIPS & WHITEFLIES.

Apply 1% spray directly to insects whenever present on these plants. Thoroughly wet both surfaces of infested leaves and branches. Repeat treatment after 2 or 3 days for continued control of APHIDS and MEALYBUGS. Control ADELGIDS, PSYLLIDS and SCALES on trees and shrubs, by spraying during periods of peak egg hatch and crawler activity. Respray after 14 days. For persistent infestations of other listed pests, respray 2 or 3 times (at weekly intervals) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Some plant varieties are sensitive to insecticidal soaps! Test a few leaves of azaleas to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Do not use on drought stressed plants or on gardenias, horse chestnut, Japanese maple, lantana, mountain ash or tender new growth of conifers. Protect pollinating insects: unless flowers are the target of the pest species, avoid spray treatments when ornamental plants are in full bloom. Product may remove glaucous bloom of spruce.

Treat FLOWERS, BEDDING PLANTS & ORNAMENTAL VEGETABLES, grown outdoors or in greenhouses, with 1% spray solution for control of [alternate wording 1: ADELGIDS, APHIDS, IMPORTED CABBAGE WORMS, CRICKETS, EARWIGS, GRASSHOPPERS, GYPSY MOTH CATERPILLARS, LACEBUGS, LEAFHOPPERS, MEALYBUGS, PLANT BUGS, PSYLLIDS, ROSE SLUGS, SAWFLIES, SCALE CRAWLERS, SPIDER MITES, TENT CATERPILLARS, THRIPS AND WHITEFLIES.] [alternative wording 2: pests listed above for ORNAMENTAL PLANTS].

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Apply 1% spray directly to insects whenever present on these plants. Thoroughly wet both surfaces of infested leaves and branches. Repeat treatment after 2 or 3 days for continued control of APHIDS and MEALYBUGS. For persistent infestations of other listed pests, respray 2 or 3 times (at weekly intervals) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Some plant varieties are sensitive to insecticidal soaps! Test a few leaves and flowers of ageratum, azalea, begonia, chrysanthemum, dahlia, delicate ferns, fuchsia, geranium, impatiens, lilies, ivies, marigold, ornamental peppers, pansy, petunia, poinsettias, salvia, schefflera, snapdragon, some succulents, vinca & zinnia to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves and/or flowers, rinse treated plants with clean water. Do not use on bleeding heart, lantana or sweetpeas. Protect pollinating insects; unless flowers are the target of the pest species, avoid spray treatments when flowers and bedding plants are in full bloom.

Treat NUT TREES, FRUIT & BERRIES, grown outdoors or in greenhouses, with 1% spray solution to control listed pests *up to day of harvest*. Use on ALMOND, BEECHNUT, BUTTERNUT, CASHEW, CHESTNUT, FILBERT, HICKORY NUT, MACADAMIA NUT, PECAN & WALNUT to control APHIDS & SPIDER MITES; use on GRAPEFRUIT, LEMON, LIME, ORANGE, TANGERINE, TANGELO & OTHER CITRUS HYBRIDS to control APHIDS, SCALE CRAWLERS & SPIDER MITES; use on APPLE, CRABAPPLE, GUAVA, PEAR & QUINCE to control ADELGIDS, APHIDS, WOOLLY APHIDS, SCALE CRAWLERS, PEAR PSYLLA, PEAR SLUG, SPIDER MITES & THRIPS; use on APRICOT, CHERRY, NECTARINE, PEACH, PLUM, & PRUNE to control APHIDS & MITES; use on BLACKBERRY, BLUEBERRY, BOYSENBERRY, CRANBERRY, CURRENT, DEWBERRY, ELDERBERRY, FIG, GOOSEBERRY, GROUNDCHERRY, HUCKLEBERRY, KIWI FRUIT, LOGANBERRY, MULBERRY, PAWPAW, PERSIMMON, PINEAPPLE, RASPBERRY, SERVICEBERRY, STRAWBERRY, SUGAR APPLE & YOUNGBERRY to control APHIDS & SPIDER MITES; use on GRAPE to control APHIDS & LEAFHOPPERS; use on exotic fruit such as AVOCADO, BANANA, DATE, GRANADILLA, LOQUAT, MANGO, PAPAYA, PASSION FRUIT, POMEGRANATE, PRICKLYPEAR, SAPODILLA, SAPOTA, SHADDOCK & SOURSOP to control ADELGIDS, APHIDS, LEAFHOPPERS, MEALYBUGS, PLANT BUGS, PSYLLIDS, SCALE CRAWLERS, SLUGS (SAWFLY LARVAE), STINK BUGS, SPIDER MITES, THRIPS, WOOLLY APHIDS & WHITEFLIES.

Apply 1% spray directly to insects whenever present on these plants. Thoroughly wet both surfaces of infested leaves and branches. Repeat treatment after 2 or 3 days for continued control of APHIDS and MEALYBUGS. Control ADELGIDS, PSYLLIDS and SCALES, by spraying during periods of peak egg hatch and crawler activity. Respray after 14 days. For persistent infestations of other listed pests, respray 2 or 3 times (at weekly intervals) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Some plant varieties are sensitive to insecticidal soaps! Test a few leaves to determine if the plant is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Protect pollinating insects; avoid spray treatments when trees and shrubs are in full bloom. **TREAT UP TO DAY OF HARVEST!**

Treat GARDEN VEGETABLES, grown outdoors or in greenhouses, with 1% spray solution to control listed pests *up to day of harvest*. Use on TOMATOES, EGGPLANT, OKRA, & PEPPERS to control APHIDS, SPIDER MITES & WHITEFLIES; use on BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, CHARD, CHINESE CABBAGE, COLLARDS, & KALE, to control APHIDS, IMPORTED CABBAGEWORMS, CABBAGE LOOPERS, FLEA BEETLES, HARLEQUIN BUGS, LEAF BEETLES, LEAFHOPPERS & WHITEFLIES; use on CELERY, LETTUCE, MUSTARD & OTHER GREENS, RADISH, SPINACH & TURNIPS to control ADELGIDS, APHIDS, CATERPILLARS, FLEA BEETLES, LEAFHOPPERS & SPIDER MITES; use on CUCUMBER, PUMPKIN, SQUASH & MELONS to control APHIDS, FLEA BEETLES, LEAF BEETLES, LEAFHOPPERS, SPIDER MITES, SQUASH BUGS & WHITEFLIES; use on BEANS, PEAS & EDIBLE SOYBEANS to control APHIDS, LEAFHOPPERS, GRASSHOPPERS, GREEN STINK BUGS & SPIDER MITES.

Apply 1% spray directly to insect or mite pests. Retreat after 2 or 3 days for continued control of APHIDS & MEALYBUGS. For persistent infestations of other listed pests, respray 2 or 3 times (at weekly intervals) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Some plant varieties are sensitive to insecticidal soaps! Test a few leaves (particularly before repeat applications to cucurbit & pepper cultivars) to determine if the variety is sensitive to product dilutions before spraying the entire planting. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. **TREAT UP TO DAY OF HARVEST!**

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In GREENHOUSES & INDOOR PLANT-SCAPES, use 1% spray solution for control of LISTED PESTS as directed above. Use a 0.5% (active) spray solution (mix 5 TBS. of concentrate per gallon of water) for control of GREENHOUSE WHITEFLY. On greenhouse or indoor food plants (vegetables, herbs, fruits & nuts), TREAT UP TO DAY OF HARVEST!

On LAWNS & TURF, use 1% (active) spray solution (1 part product per 25 parts water, or 5 oz. product per gallon of water) for control of CHINCH BUGS & MOLE CRICKETS. Apply 1% spray at rate of 1 quart per 110 sq. ft. (= 1 gallon per 440 sq. ft. or 100 gallons per acre). Follow application immediately with a thorough watering of lawn & turf areas at rate of 15 gallons of water per 110 sq. ft. (= 60 gallons per 440 sq. ft. or 6,000 gallons per acre.)

ALTERNATE USE & RESTRICTIONS WORDING FOR PRODUCTS PACKAGED FOR HOME AND/OR COMMERCIAL USE:

WHEN USED IN COMBINATION WITH OTHER PESTICIDES: This product may be combined with other pesticides to increase the pest target spectrum. Use of any such pesticide combination must conform to the use precautions and direction for use statements of BOTH products. Tank mix at a rate of 1 part of Super Insecticidal Soap Concentrate per 50 parts of a solution (mixed at recommended concentration) of the companion pesticide.

Do not use product in combination with foliar nutrients, spreader-stickers, penetrators, alkaline (cationic) based chelating agents such as EDTA or with pesticides containing sulfur or metallic ions (such as manganese, magnesium, iron, zinc, etc.)

RECOMMENDED RATES FOR COMMERCIAL USE

Treat INDOOR PLANTS with 1% (active) spray solution (1 part product per 25 parts water, or 5 oz. product per gallon of water) for control of APHIDS, MEALYBUGS, SCALE CRAWLERS, SPIDER MITES, THRIPS & WHITEFLIES. Make sure that spray penetrates through dense foliage to wet all infested surfaces. Examine plants for aphids after two days and respray if aphids are still present. Spray at weekly intervals if other pests are still present. Limit application, however, to three consecutive spray treatments unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Treat AFRICAN VIOLETS for control of blossom thrips by spraying all surfaces of blossoms. Treat AFRICAN VIOLETS, SUCCULENTS OR CACTUS for control of ROOT MEALYBUGS by drenching pots of infested plants with a tepid 0.8% solution (2 TBS. of concentrate per quart of water). Some plant varieties are sensitive to insecticidal soaps! Test a few leaves (and/or flowers) of African violet, azaleas, begonias, chrysanthemums, delicate ferns, fuchsias, geraniums, impatiens, lilies, ornamental ivies, palms, poinsettias or some succulents to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Do not use on gardenia or jade plant.

Treat ORNAMENTAL TREES, SHRUBS & PLANTS, growing outdoors, in greenhouses, interior plantscapes, or in and around the home for control of these insect pests: ADELGIDS, APHIDS, IMPORTED CABBAGE WORMS, CRICKETS, EARWIGS, FLEA BEETLES, GRASSHOPPERS, GREEN STINK BUGS, GYPSY MOTH CATERPILLARS, LACEBUGS, LEAFHOPPERS, MEALYBUGS, PLANT BUGS, PSYLLIDS, ROSE SLUGS, SAWFLIES, SCALE CRAWLERS, SPIDER MITES, TENT CATERPILLARS, THRIPS, WHITEFLIES & WOOLLY APHIDS.

To control SPRUCE WOOLLY APHID, apply 2% (active) spray solution (2 parts product per 25 parts water or 10 oz. product per gallon of water) in fall and spring when females start to lay eggs. Do not apply to evergreens during drought or when tender new foliage is present.

To control TENT CATERPILLARS, apply 1.6% (active) spray solution (1 part product per 15 parts water, or 8 oz. per gallon of water) directly to young caterpillars when they congregate on the outside of their tents.

To control CONIFER & PINE NEEDLE SCALES, apply 1.2% (active) spray solution (1 part product per 20 parts water, or 6 oz. per gallon of water) to thoroughly wet infested evergreen foliage, twigs and branches. Time application for first appearance of scale crawlers. Do not apply to evergreens during drought or when tender new foliage is present.

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To control foliage feeders such as CABBAGE WORMS, GYPSY MOTHS and most other CATERPILLARS, FLEA BEETLES, GRASSHOPPERS, STINK BUGS, LACEBUGS, LEAFBUGS, PLANTBUGS & ROSE SLUGS (& other SAWFLY LARVAE), apply directly to insect and mite pests whenever present on plants. Thoroughly wet both surfaces of infested leaves and branches. Repeat treatment after 2 or 3 days for continued control of APHIDS, MEALYBUGS & WHITEFLIES. Use 1% spray to control ADELGIDS, PSYLLIDS and most SCALES on trees and shrubs, by spraying to wet bark surfaces during periods of peak egg hatch and crawler activity. Respray after 14 days. To control HEMLOCK WOOLLY ADELGID, apply 1% solution to cover all plant surfaces. For heavy infestations or infestation histories, apply four times (during April/May, June, August/September, and October). To control SPIDER MITES, thoroughly wet underside of leaves and needle sheaths with 1% spray. Spray blossoms with 1% spray to control flower thrips. For GRASSHOPPERS on outdoor plants and for CRICKETS & EARWIGS in greenhouses and indoor plantscapes, apply 1% spray directly on insects while they are feeding on host plants or after disturbing their hiding places.

To control BALSAM WOOLLY APHIDS, apply 0.6% (active) solution (1 part product per 40 parts water, or 3 oz. per gallon water) to thoroughly wet foliage, twigs and branches. Time application for early spring and/or fall, when crawler stages are abundant. Respray after 10 days.

For persistent pest infestations, respray 2 or 3 times (at weekly intervals, or as specified above) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. **Some plant varieties are sensitive to insecticidal soaps!** Test a few leaves of azaleas to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Do not use on drought stressed plants or on gardenias, horse chestnut, Japanese maple, lantana, mountain ash or tender new growth of conifers. Protect pollinating insects: unless flowers are the target of the pest species, avoid spray treatments when ornamental plants are in full bloom.

Treat FLOWERS, BEDDING PLANTS & ORNAMENTAL VEGETABLES, growing outdoors, in greenhouses, interior plantscapes, or in and around the home, with 1% spray solution (1 part product per 25 parts water, or 5 oz. product per gallon of water) for control of these insect pests: ADELGIDS, APHIDS, IMPORTED CABBAGE WORMS, CRICKETS, EARWIGS, GRASSHOPPERS, GYPSY MOTH CATERPILLARS, LACEBUGS, LEAFHOPPERS, MEALYBUGS, PLANT BUGS, PSYLLIDS, ROSE SLUGS, SAWFLIES, SCALE CRAWLERS, SPIDER MITES, TENT CATERPILLARS, THRIPS AND WHITEFLIES.

To control these listed pests, apply 1% spray directly to insects or mites whenever present on these plants. Thoroughly wet both surfaces of infested leaves and branches. Repeat treatment after 2 or 3 days for continued control of APHIDS and MEALYBUGS. For persistent infestations of other listed pests, respray 2 or 3 times (at weekly intervals) until control is achieved. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. **Some plant varieties are sensitive to insecticidal soaps!** Test a few leaves and flowers of ageratum, azalea, begonia, chrysanthemum, dahlia, delicate ferns, fuchsia, geranium, impatiens, lilies, ivies, marigold, ornamental peppers, pansy, petunia, poinsettias, salvia, schefflera, snapdragon, some succulents, vinca & zinnia to determine if the variety is sensitive to product dilutions before spraying the entire plant. If wilting occurs within a few hours on test leaves, rinse foliage with clean water. Do not use on bleeding heart, lantana or sweetpeas. Protect pollinating insects: unless flowers are the target of the pest species, avoid spray treatments when flowers and bedding plants are in full bloom.

FOR PESTS OF FRUIT, NUT & SOME OTHER CROPS
 GROWN OUTDOORS, IN GREENHOUSES OR INDOOR PLANTSCAPES

<p>On Citrus fruits such as: citron, grapefruit, kumquat, lemon, lime, orange, rough lemon, spanish lime, tangerine, tangelo & other citrus hybrids.</p> <p>On Pome fruits such as: apple, crabapple, guava, pear & quince.</p> <p>On Stone fruits such as: apricot, cherry, nectarine, peach, plum & prune; also olives.</p> <p>On Small fruits and Berries such as: blackberry, blueberry, boysenberry, cranberry, current, dewberry, elderberry, fig, gooseberry, grape, groundcherry, huckleberry, kiwi fruit, loganberry, mulberry, pawpaw, persimmon (& japanese persimmon), pineapple, raspberry, serviceberry, strawberry, sugar apple & youngberry.</p> <p>On Exotic, Semi-tropical or Tropical fruits such as: avocado, banana, date, granadilla, loquat, mango, papaya, passion fruit, pomegranate, pricklypear, sapodilla, sapota, shaddock, & soursop.</p> <p>On Tree and Bush nuts such as: almond, beech nut, butternut, cashew, filbert (hazlenut), ginko nut, hickory nut, litchi nut, macadamia nut, pecan, pine nuts, pistachio, black walnut & english walnut.</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p>NOTE: Presence of sooty mold on plant foliage or on fruit (particularly on citrus) may lead to surface marking. Marking may also occur on some varieties of pome fruits</p> </div> <p>Also on the following crops (grown outdoors or in greenhouses):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Alfalfa</td> <td style="width: 50%;">Tobacco</td> </tr> <tr> <td>Coffee</td> <td>Watercress</td> </tr> <tr> <td>Peanuts</td> <td>Wheat</td> </tr> <tr> <td>Hops</td> <td></td> </tr> </table> <p>for control of insects & mites listed in right column.</p>	Alfalfa	Tobacco	Coffee	Watercress	Peanuts	Wheat	Hops		<p>Treat foliage and stems of crops listed at left for control of INSECTS and MITES, including: adelgids, aphids, foliage feeding caterpillars, leafhoppers, mealybugs, pear psylla, pear slugs (sawfly larvae), plant bugs, scale crawlers, spider mites, thrips, wooly aphids & whiteflies.</p> <p>Application Rate and Sites: Make spray dilution by mixing 1 part of product per 25 parts of water or 5 oz. product per gallon of water. Use on listed crops grown outdoors, in greenhouses or indoor plantscapes.</p> <p>Spray Coverage: Apply so that spray thoroughly wets pests and all infested plant surfaces (foliage, stems, etc.)</p> <p>Timing of Applications: Apply product to coincide with the first appearance or emergence of insect or mite pests, or when pest damage is first observed. Repeat at weekly or biweekly intervals if insect or mite pests are still present. Avoid more than 3 consecutive spray treatments with Super Insecticidal Soap unless foliage has been thoroughly rinsed to remove any possible accumulation of residues.</p> <p>Use up to day of harvest.</p> <p>Restrictions: Avoid application in full sun or when leaf temperature exceeds 90°F. SOME PLANT VARIETIES ARE SENSITIVE TO INSECTICIDAL SOAPS. When varietal sensitivity is unknown, test representative sample plants with diluted product and observe for several hours before treating entire crop. Do not apply to crop if wilting of test plants occurs. Rinse test plants with spray of clean water.</p>
Alfalfa	Tobacco								
Coffee	Watercress								
Peanuts	Wheat								
Hops									

FOR PESTS OF FIBER CROPS GROWN OUTDOORS

<p>On Cotton</p>	<p>Spray foliage for control of these INSECTS and MITES: aphids, leafhoppers, plant bugs, spider mites, thrips and whiteflies.</p> <p>Application Rate: Use up to 1 gallon of product/acre, alone or in tank mix. If diluted, use 3 - 20 gallons of spray mixture per acre.</p> <p>Spray Coverage: Apply so spray thoroughly wets all infested plant surfaces.</p> <p>Timing of Applications: Apply product to coincide with the first appearance or emergence of insect or mite pests, or when pest damage is first observed. Repeat at weekly or biweekly intervals if insect or mite pests are still present. Avoid more than 3 consecutive spray treatments with Super Insecticidal Soap unless foliage has been thoroughly rinsed to remove any possible accumulation of residues.</p>
<p>Restrictions: Avoid application in full sun or when leaf temperature exceeds 90°F. Some plant varieties are sensitive to insecticidal soaps. When varietal sensitivity is unknown, test representative sample plants with diluted product and observe for several hours before treating entire crop. If wilting occurs, rinse treated plants with spray of clean water.</p>	

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FOR PESTS OF VEGETABLE CROPS, HERBS AND SPICES,
GROWN OUTDOORS, IN GREENHOUSES OR INDOOR PLANTSCAPES

On Root and Tuber vegetables such as: beet, carrot, horseradish, parsnip, potato, radish, rutabaga, sugar beet, sweet potato, turnip, & yam.

On Bulb vegetables such as: garlic, leek, onion & shallot.

On Leafy vegetables such as: celeriac, celery, chinese greens, chicory, dock (sorrel), endive, fennel, grape leaves, lambsquarters, lettuce, mustard, nasturtium (garden), orach, plantain, purslane, rhubarb, roquette (arugula), salsify, satinleaf cajitillo, spinach, taro, turnip, watercress, woodruff & yautia.

On Cole vegetables (*Brassica*) such as: broccoli, Brussels sprouts, cabbage, cauliflower, chard (Swiss), Chinese cabbage (bok choy), collards, kale and kohlrabi.

On Legume vegetables and crops such as: alfalfa, beans, lentils, peanuts, peas & soybeans.

On Cucurbit vegetables such as: cantaloupe, cucumber, cuzzi (spagetti squash), gherkin, gourds, melons (all types), musk melon, pumpkin, squash (summer & winter), watermelon & zucchini.

On Fruiting vegetables such as: chayote, eggplant, okra, peppers (all types), pimento, tomato & tomatillos.

On other vegetables such as: artichoke & asparagus.

On Cereal crops such as: sorgham, sweet corn & wheat.

On Seed crops such as: canola, hops, safflower, & sunflower.

On Herbs and Spices such as: anise, basil, borage, caraway, chervil, chive, dill, fennel, ginseng, horehound, hyssop, lemon balm, marjoram, mint, oregano, parsley, rosemary, rue, sage, savory, sweet cicely, taggagon, tamarind, tansy, taro, turmeric, valerian & wintergreen.

Treat foliage and stems of crops listed at left for control of INSECTS and MITES, including: adelgids, aphids, cabbage worm (imported) & other foliage feeding caterpillars, crickets, flea beetles, grasshoppers, green stink bugs, harlequin bugs, leaf beetles, leafhoppers, plant bugs, squash bugs, spider mites, thrips & whiteflies.

Application Rate and Sites: Make spray dilution by mixing 1 part of product per 25 parts of water or 5 oz. product per gallon of water. Use on listed crops grown outdoors, in greenhouses or indoor plantscapes.

Spray Coverage: Apply so that spray thoroughly wets pests and all infested plant surfaces (foliage, stems, etc.)

Timing of Applications: Apply product to coincide with the first appearance or emergence of insect or mite pests, or when pest damage is first observed.

Repeat at weekly or biweekly intervals if insect or mite pests are still present.

Avoid more than 3 consecutive spray treatments with Super Insecticidal Soap unless foliage has been thoroughly rinsed to remove any possible accumulation of residues.

Use up to day of harvest.

Restrictions: Avoid application in full sun or when leaf temperature exceeds 90°F. SOME PLANT VARIETIES ARE SENSITIVE TO INSECTICIDAL SOAPS (particularly CUCURBIT & PEPPER cultivars on repeat application). When varietal sensitivity is unknown, test representative sample plants with diluted product and observe for several hours before treating entire crop. Do not apply to crop if wilting occurs within a few hours. Rinse test plants with spray of clean water.

Treat ornamental or food plants (vegetables, herbs, fruits & nuts) in GREENHOUSES & INDOOR PLANT-SCAPES with a 0.5% (active) spray solution (mix 5 TBS. of concentrate per gallon of water) for control of GREENHOUSE WHITEFLY. Spray all foliage surfaces. Avoid more than three consecutive spray treatments with this product unless treated foliage has been thoroughly rinsed to remove any accumulating product residues. Some plant varieties are sensitive to insecticidal soaps! Test a few leaves and flowers to determine if the variety is sensitive to product dilution before spraying the entire plant. TREAT UP TO DAY OF HARVEST!

Treat LAWNS, GOLF COURSES, TURF & OTHER GRASSY AREAS with a 1% (active) spray solution (1 part product per 25 parts water, or 5 oz. product per gallon of water) for control of CHINCH BUGS & MOLE CRICKETS. Apply 1% spray at rate of 1 quart per 110 sq. ft. (= 1 gallon per 440 sq. ft. or 100 gallons per acre). For best results, follow product application immediately with thorough watering (irrigation) of treated turf at rate of 15 gallons of water per 110 sq. ft. (= 60 gallons per 440 sq. ft. or 6,000 gallons per acre.)

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Super Insecticidal Soap
CONCENTRATE

PRECAUTIONARY STATEMENTS
WARNING

Hazards to humans and domestic animals: Concentrate causes severe eye and skin irritation. Avoid eye or skin contact and do not get on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of practical treatment: In case of eye contact, flush eyes immediately with plenty of clean water; get medical attention. In case of skin contact, flush immediately with plenty of clean water. Get medical attention if irritation persists.

Environmental hazards: This product may be hazardous to aquatic invertebrates. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark.

Do not contaminate water by cleaning of equipment or disposal of water.

Physical or chemical hazards: Do not use or store near heat or open flame.

Personal Protective Equipment: Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the diluted product through application or other tasks must wear: long-sleeved shirt and long pants, shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear: Coveralls over short-sleeved shirt and short pants, chemical resistant gloves such as butly rubber, nitrile rubber, neoprene rubber or PVC, chemically resistant headgear for overhead exposure, and chemically resistant apron when cleaning equipment, mixing or loading. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

STORAGE AND DISPOSAL:

Storage: Store in cool place (preferably in a locked storage area) and keep container tightly sealed. Do not transfer or dilute into food or drink containers. Avoid contamination of feed or foodstuffs.

Disposal: PESTICIDE DISPOSAL - After HOME USE, dispose of unused product by securely wrapping original container in several layers of newspaper and discard in trash; after COMMERCIAL USE, wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL - Do not reuse empty container. Triple rinse before discarding in trash, or offer for recycling/reconditioning, or punch and dispose of in sanitary landfill, or by incineration, or by burning if allowed by local authorities. If burned, keep out of smoke.

Notice: Agro-K makes no warranty, expressed or implied, for any purpose other than those contained on this label. Buyer assumes all responsibility for safety and consequences of damage or injury for product use, storage, handling or application which are not in accordance with explicit label directions. THE LIMIT OF MANUFACTURER'S LIABILITY SHALL BE THE PURCHASE PRICE FOR THE QUANTITY INVOLVED. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR SPECIAL, INCIDENTAL or CONSEQUENTIAL DAMAGES.

MANUFACTURED/DISTRIBUTED BY:

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Net Volume _____
Net Weight _____

EPA REG No. 48222-_____
EPA Est. No. 48222-MN-01

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