

15 MAR 1988

Handwritten notes and initials, including "OK" and "17".

Safer, Inc.
60 William Street, Suite G-20
Wellesley, MA 02181

Gentlemen:

Subject: Safer Insecticidal Soap Concentrate
EPA Registration No. 42697-1
Your Letters Dated July 9 and October 14, 1987

The acute oral LD₅₀ test (MRID No. 402604-01) is acceptable. It indicates that this product is in Toxicity Category IV by this route of administration.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below.

1. In your registration statement, separate your submission into sections by a blank line so that the individual sections may be clearly identified. Insert a blank line after "It is . . . labeling."
2. Rewrite the last two sections of the Back Panel as follows.

WHEN USED ALONE

Safer . . . programs.

Dilute at the rate of 1 gallon of soap concentrate to 50 gallons of water. Apply according to the rates and other instructions given below under the individual crop groupings.

WHEN COMBINED WITH OTHER PESTICIDES

Safer . . . products.

Insecticidal Soap . . . at the rate of 1 gallon of soap concentrate to 100 gallons of spray . . . benomyl.

1:2:3:1:Peacock:CBI-1:Renco:3/11/88:3/21/88:Am:vc

CONCURRENCES

SYMBOL					
SURNAME					
DATE					

3. Revise your Storage and Disposal statements as follows:

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store only in original container, in a dry place inaccessible to children and pets. Keep container tightly sealed when not in use.

PESTICIDE DISPOSAL: Wastes resulting . . . facility.

CONTAINER DISPOSAL: Do not reuse . . . of smoke.

4. For homeowner sizes, the following "Storage and Disposal" statements are acceptable.

STORAGE AND DISPOSAL

Store only in original container, in a dry place inaccessible to children and pets. Keep container tightly sealed when not in use.

Do not reuse empty container. Rinse thoroughly. Securely wrap in newspaper and discard in trash.

Submit five (5) copies 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(c). 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,

William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosures

2/1/7

BASIC MASTER CONCENTRATE

RECEIVED
18 MAR 1988

DRAFT LABEL - FRONT PANEL

SAFERtm

INSECTICIDAL SOAP

CONCENTRATE

KILLS

APHIDS, MEALYBUGS, WHITEFLY, MITES
AND OTHER LISTED PESTS
ON FOLIAGE PLANTS, FLOWERS, SHRUBS,
TREES, VEGETABLES, FRUITS AND NUTS
IN AND AROUND HOMES
GREENHOUSES AND NURSERIES

ACTIVE INGREDIENTS	BY WT.
Potassium salts of fatty acids	49.0%
INERT INGREDIENTS	51.0%
TOTAL	100.0%

Keep Out of Reach of Children

CAUTION

See Back Panel for Additional Precautionary Statements

NET CONTENTS 1 Gallon

DRAFT LABEL - BACK PANEL

FOR CONTROL OF ADELGIDS, APHIDS, EARWIGS, GRASSHOPPERS, LACEBUGS, MEALYBUGS, MITES, PLANT BUGS, PSYLLIDS, SAWFLY LARVAE, SCALES, TENT CATERPILLARS, THRIPS, WHITEFLY, WOOLLY APHIDS and OTHER LISTED PESTS.

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals:

CAUTION: Harmful if swallowed. Avoid contamination of food and food stuff. May cause eye irritation; avoid eye contact.

First Aid: In case of eye contact, flush with plenty of water. Get medical attention if irritation persists.

Environmental Hazards: Keep out of lakes, streams and ponds.

Physical or Chemical Hazards: Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For best results use freshly mixed solution. Use soft water whenever possible. If water has a high mineral content and produces soap scum, soften water with an approved softening agent before adding soap concentrate. A defoaming agent may be needed when applied with a sprayer equipped with an agitator.

NOTE: Do not use on new transplants, newly rooted cuttings or plants stressed by drought. Avoid application when leaf temperature exceeds 90 F.

WHEN USED ALONE

Safertm Insecticidal Soap may be used up to and including day of harvest, and is useful as a component of Integrated Pest Management (IPM) programs.

Apply at the equivalent of 1 to 4 gallons per acre in sufficient water to yield a dilution rate of 1 gallon of soap concentrate to 50 gallons of water, except when otherwise indicated. Spray should be applied to thoroughly wet both upper and lower leaf surfaces.

WHEN COMBINED WITH OTHER PESTICIDES

Safertm Insecticidal Soap may be combined with other pesticides to broaden the target spectrum, improve the level of kill and enhance coverage. Such use should conform to accepted use precautions and directions for use of both products. Insecticidal Soap should be tank mixed at a rate of 1 gallon per 100 gallons of spray containing the specified amount of the companion pesticide or less. Products with which it may be tank mixed include, but are not limited to, *Bacillus thuringiensis*, pyrethrum, methoxychlor and benomyl.

INDOOR PLANTS Mix one part concentrate with 50 parts water, or 2.5 fl. oz. per gallon. Apply when insects or signs of their damage appear. Take care to thoroughly wet all surfaces of infested foliage and branches. For aphids examine plants after two days and spray again if needed. For other pests spray weekly as needed up to three times. Do not make repeated sprays at short intervals without thoroughly rinsing foliage. For Blossom thrips on African violets spray to contact thrips on the blooms; root mealybug and springtail infestations can be reduced using a soil drench of one to two tablespoons of concentrate in a quart of tepid water applied monthly.

NOTE: Do not use on Crown of Thorns and test other euphorbias for phytotoxicity before full-scale application. Do not use on delicate ferns, ornamental ivies, palms or succulents without testing.

FLOWERS AND BEDDING PLANTS GROWING OUTDOORS AND IN GREENHOUSES

Including (but not limited to) foliage plants, roses and succulents. Mix one part concentrate with 50 parts water or 2.5 fl. oz. per gallon. Apply when insects appear. Take care to thoroughly wet all infested surfaces. A second application should be timed to control newly hatched young. Repeat weekly as needed up to three times. For earwigs spray directly on insects after disturbing their hiding place.

NOTE: Do not use on bleeding heart, gardenias, jade plant, lantana or sweetpeas. Some varieties of azaleas, legonias, camellias, fuchsias and impatiens are soap sensitive; if wilting occurs within a few hours rinse with clean water spray.

ORNAMENTAL LANDSCAPE TREES AND SHRUBS Including (but not limited to) Christmas trees. Mix one part concentrate with 50 parts water or 2.5 fl. oz. per gallon. To control the crawler stage of adelgids, psyllids and scales spray to wet bark surface when infestation warrants. For mites, be sure to wet underside of leaves and needle sheaths. For tent caterpillars, mix 4 fl. oz. per gallon of water and spray directly on young larvae when congregated on outside of tent.

To control Balsam Woolly Aphid on true firs (Abies) mix one part concentrate to 80 parts water or approximately 1.5 fl. oz. per gallon. Spray trees thoroughly when crawlers are abundant in early spring and/or fall. For best results make a second application after ten days.

To control Spruce Woolly Aphid mix 5 fl. oz. of concentrate per gallon of water. Spray spruce thoroughly in fall or spring before females begin egg laying; on Douglas fir spray before bud break or in the fall after foliage has hardened off.

To control conifer aphids and pine needle scale mix 3 fl. oz. per gallon of water and spray to thoroughly wet foliage when insects appear.

NOTE: Do not apply to chestnut, Japanese maple or mountain ash. Do not apply to evergreens during drought or when tender new foliage is present.

VEGETABLES GROWING OUTDOORS AND IN GREENHOUSES: Mix one part concentrate to 50 parts water or 2.5 fl. oz. per gallon. Apply when insects or mites appear or when damage first occurs. Spray to wet all infested plant surfaces. Application rate will vary according to size and growth form of plants. Row crops will typically require 1 to 3 gallons of concentrate in 50 to 150 gallons of spray per acre. For most pests repeat application after several days to eliminate newly hatched individuals. Repeat at weekly to biweekly intervals up to three times.

ROOT AND TUBER VEGETABLES: Including (but not limited to) potato, radish and sugar beet to control aphids, Colorado potato beetle, leafhoppers, plant bugs and whitefly. Use up to day of harvest.

BULB VEGETABLES: Including (but not limited to) onion and garlic to control thrips. Use up to day of harvest.

LEAFY VEGETABLES: Including (but not limited to) lettuce, celery and spinach to control aphids, whitefly and mites. Use up to day of harvest.

BRASSICA (cole) LEAFY VEGETABLES: Including (but not limited to) broccoli, brussels sprouts, cabbage, Chinese cabbage (bok choy) and kale to control aphids, leafhoppers, plant bugs and whitefly. Use up to day of harvest.

LEGUME VEGETABLES: Including (but not limited to) beans, peas and soybeans to control aphids, grasshoppers, whitefly and spider mites. Use up to day of harvest.

FRUITING VEGETABLES: Including (but not limited to) eggplant, pepper and tomato, to control aphids, whitefly and spider mites. Use up to day of harvest.

CUCURBIT VEGETABLES: Including (but not limited to) cucumber, melon and summer squash to control aphids, plant bugs, whitefly and spider mites. Use up to day of harvest.

HERBS AND SPICES: Including (but not limited to) basil, chives, dill, marjoram, and sage to control aphids, whitefly and mites. Use up to day of harvest.

FRUIT AND NUTS - Mix one part concentrate to 50 parts water or 2.5 fl. oz. per gallon. Spray when insects first appear or to prevent damage. Apply to achieve thorough coverage of infested foliage and/or branches. Repeat at weekly intervals as needed. Avoid spraying when blossoms are present.

CITRUS FRUITS: Including (but not limited to) sweet orange, lemon and grapefruit to control aphids, cottony cushion scale, black scale, red scale and mites. Use up to day of harvest.

NOTE: If sooty mold is present, soap spray may cause some marking of fruit.

POME FRUITS: Including (but not limited to) apple and pear to control aphids, woolly aphids, scale crawlers, pear psylla, pear slug (Tenthredinidae) and mites. Use up to day of harvest.

NOTE: Soap spray may cause marking of some varieties.

STONE FRUITS: Including (but not limited to) cherry, peach and plums to control aphids, scale insects and mites. Use up to day of harvest.

NOTE: Soap spray may cause marking of some varieties.

SMALL FRUITS AND BERRIES: Including (but not limited to) blackberry, cranberry, grape and strawberry to control aphids, leafhoppers, whitefly and mites. Use up to day of harvest.

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TREE NUTS: Including (but not limited to) almond, English walnut and pecan to control aphids, scale crawlers and mites. Use up to day of harvest.

ADDITIONAL CROPS: Including (but not limited to) asparagus and cotton. Mix one part concentrate to 50 parts water or 2.5 fl. oz. per gallon. To control aphids, whitefly and mites spray when insects appear. Repeat at weekly intervals as needed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Keep container tightly sealed when not in use. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not reuse empty container. Triple rinse, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, if allowed by state and local authorities. If burned stay out of smoke. For containers one gallon and smaller: Do not reuse empty container. Rinse thoroughly before discarding in trash.

Safar, Inc.
10000 1st Street
Baltimore, MD 21286

EPA Reg. No. 497-1
EPA Est. No. 497-11-001