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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 7 1994

REBECCA A. CLEMMER
ELF ATOCHEM NORTH AMERICA INC.
AGRICHEMICALS DIV
2000 MARKET STREET, 21ST FLOOR
PHILADELPHIA, PA. 19103

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 7/30/93 Response to PR Notice 93-7
EPA Reg. No. 4581-335
KNOX OUT 2 FM

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

BEST AVAILABLE COPY

PROPOSED LABEL

2078

ACCEPTED
MAGnum CHEMISTS
In EPA Letter Dated
MAR 7 1994

elf atochem
ATO

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
4581-335

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

KNOX OUT® 2 FM
FLOWABLE MICROENCAPSULATED
INSECTICIDE
SHAKE WELL BEFORE USING

ACTIVE INGREDIENTS:
Diazinon (0,0-Diethyl 0-[6 methyl-2-(1-methylethyl)-4-pyrimidinyl]phosphorothioate) 23.0%

INERT INGREDIENTS: 77.0%

TOTAL 100.0%

Contains 2 pounds Diazinon per gallon
U.S. Patents 3,429,827 and 3,577,515

EPA Registration No. 4581-335 EPA Establishment No. 4581-TX-1

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

IF SWALLOWED—Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN—Remove contaminated clothing immediately and wash skin with soap and water.

IF IN EYES—Wash thoroughly with water for at least 15 minutes. Call a physician if symptoms occur.

NOTE TO PHYSICIAN: The active ingredient of KNOX OUT 2FM is an organophosphate cholinesterase inhibitor. Atropine is antidotal only if symptoms of cholinesterase inhibition are present. Morphine is contraindicated.

GENERAL INFORMATION

KNOX OUT 2FM is a flowable microencapsulated formulation containing 2 pounds Diazinon per gallon.

It is to be used for residual pest control in and around buildings including, but not limited to, homes, apartments, stores, hospitals (non-patient room areas), nursing homes, interiorscapes, manufacturing plants, warehouses, schools, restaurants, hotels, motels, food processing plants, and on vessels, aircraft, boats, ships, rail cars, buses, trucks, and trailers.

KNOX OUT 2FM can be sprayed on any surface which will not be damaged or stained by water. Under conditions of proper application, KNOX OUT 2FM will not leave a visible deposit. However, if unevenly applied or sprayed to run-off, a visible deposit may occur on some dark surfaces and may be wiped off with a wet cloth or sponge.

Due to its controlled-release nature, KNOX OUT 2FM gives excellent residual kill of the pests listed on this label; however, effective knockdowns may take up to 24 hours after application.

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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 for agricultural pesticides (40CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not apply to humans, their clothing or bedding.* Do not allow children or pets to contact treated surfaces until spray has dried. Do not contaminate food or use on household pets.* Cover fish tanks prior to application.*

Avoid contamination of food, feed-stuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes, or food storage containers.

Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

Vacate patient rooms and school rooms before treatment. Allow spray deposits to dry thoroughly before the room is reoccupied.

The only statement that must be in the Non-Agricultural Use Requirements box is that underlined in green. All other statements should be returned to their locations as shown on the original label.

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KNOX OUT 2FM

Do not apply this product through any type of irrigation system.

Thoroughly wash out spray equipment before using KNOX OUT 2FM. Make concentrate well before diluting.

PERIMETER TREATMENT APPLICATIONS

To help prevent infestations of buildings by the labelled pests, treat a band of soil 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. KNOX OUT 2FM may be applied in compressed air equipment or power spray equipment. Apply as a coarse spray to thoroughly and uniformly wet the band area. A rate of 4 to 6 ounces of KNOX OUT 2FM per 1,000 square feet is desirable.

SPOT TREATMENT APPLICATIONS

Spot treatments should not cover areas of more than 2 square feet and not more than 20% of the floor surface should be treated.

CRACK AND CREVICE APPLICATIONS

Crack and crevice applications should be made using equipment capable of delivering a pin stream or of applying small amounts of insecticide directly into or between equipment and floors, openings leading to voids in walls, floors, and ceilings, and similar locations where these pests may hide or enter.

KNOX OUT 2 FM MIXING INSTRUCTIONS

Unless otherwise directed, dilute KNOX OUT 2FM with water to make a 0.5% to 1% spray** as indicated:

Amount of Finished Spray	Amount* of KNOX OUT 2FM to use for:	
	0.5% Spray**	1% Spray**
1 Pint	0.3 fl. oz.	0.6 fl. oz.
2 Pints	0.6 fl. oz.	1.2 fl. oz.
4 Pints	1.2 fl. oz.	2.5 fl. oz.
1 Gallon	2.5 fl. oz.	5.0 fl. oz.
2 Gallons	5.0 fl. oz.	10.0 fl. oz.
3 Gallons	7.5 fl. oz.	15.0 fl. oz.
10 Gallons	25.0 fl. oz. (1.6 pints)	50.0 fl. oz. (1.6 quarts)

*1 Tablespoon = 1.5 fl. oz.

** Active ingredient basis

When diluting, first add approximately half the water to the spray tank, then add the required quantity of KNOX OUT 2FM, and finally add the rest of the water. Occasionally agitate sprayer during use to assure even coverage. Shake or re-agitate sprayer before use if application is interrupted.

Do not use this formulation with oil.

IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER.

Cockroaches and Silverfish—Make spot applications of KNOX OUT 2FM as a 0.5% to 1% fine spray or by paint brush to drawers, shelves,

around water pipes, storage areas, closets, behind and under cabinets, refrigerators, sinks, stoves and in similar areas where these insects hide.

Repeat treatments of KNOX OUT 2FM should be made as needed, but generally will not be necessary more than once every 60 days. Use the low rate for light infestations or monthly maintenance sprays, and the higher concentration for heavy infestations, initial clean out, or where insecticide resistance is suspected.

Ants—Make spot applications of 0.5% to 1% KNOX OUT 2FM as a spray to baseboards, window frames, wall voids, crawl spaces, cracks and crevices, and similar hiding or habitation areas. Apply to trails, around doors and windows, and other areas where these pests may crawl or enter the premises. Repeat application as necessary.

Carpenter Ants—Make spot applications of 0.5% to 1% KNOX OUT 2FM to any trails, around doors and windows, wall voids, crawl spaces, and any other places where ants enter premises. Where possible, treat and seal or infested wood directly. Repeat application as necessary.

Carpet Beetles—Make applications of 0.5% to 1% KNOX OUT 2FM as a spray on and under edges of floor coverings, under carpets and furniture, and in closets or other localities where these insects are found. Entire carpets may be treated. When treating entire carpets see directions under Fleas and Ticks. Repeat application as necessary.

Crickets—Make spot applications of 0.5% to 1% of KNOX OUT 2FM as a spray to baseboards, behind and under cabinets and appliances, and other hiding places. Areas around doors and water pipes should be treated to help prevent crickets from entering the premises. Repeat application as necessary.

Flies—Make spot applications of 1% KNOX OUT 2FM as a spray to window frames, screens, dumpsters, trash cans, and similar areas where these pests may congregate. Repeat application as necessary.

Fleas and Ticks—Thoroughly apply KNOX OUT 2FM as a 1% fine spray to pet beds and resting quarters, adjacent cracks and crevices, baseboards, carpets and floor coverings, between and under cushions of upholstered furniture, and other areas where these pests may be present. Entire carpets may be treated. Applications to most surfaces should be as light as possible, approximately 2 quarts finished spray per 800 square feet. It may be necessary to use a higher volume of spray, approximately 3 to 4 quarts per 800 square feet, on long, dense shag carpets. Old bedding of pets should be replaced with clean, fresh bedding after treatment. Animals should not be sprayed with this product.

Perimeter Treatments—Residual spray for control of Ants, Carpenter Ants, Cockroaches, Crickets, Fleas, Silverfish, and Ticks (see instructions under Directions for Use):

Apply a 0.5% to 1% KNOX OUT 2FM spray to exterior surfaces of building, porches, screens, window frames, caves, patios, garages, and other areas where these pests congregate or enter premises.

Use In and Around Livestock Housing—For control of Flies in Barns and Animal Sleeping Quarters (except Dairy Barns, Milk Rooms and Poultry Houses):

Apply a 1% KNOX OUT 2FM spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm buildings except dairy barns, milkrooms and poultry houses. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Repeat applications as fly populations warrant.

Remove animals from buildings prior to treatment and keep animals out until spray has dried.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry.

Yellowjackets—Use in Baits for Control of Scavenger Yellowjackets (*Vespa pensylvanica*, *V. vulgaris*) in the 1) Contiguous Western States Only (AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY).

Consult the Supplemental Label available in these states.

Stored Product Pests—For control of exposed stages of Sawtoothed Grain Beetle, Confused Flour Beetle, Red Flour Beetle, Rice Weevil, Grain Weevil, Warehouse Beetle:

Make spot and/or crack and crevice treatment of 0.5% to 1% KNOX OUT 2FM to localized areas including shelves, cupboards, walls and floors, where food products suspected of being infested are stored. Food

should be removed or covered during treatment. This treatment is supplemental to good housekeeping, since it will have no effect on insects breeding within packaging. Infested food packaging should be destroyed.

Food Handling Establishments—Places other than private residences in which food is held, processed, prepared, packaged, or served. Applications are limited to spot and/or crack and crevice treatments only.

Make spot and/or crack and crevice applications of KNOX OUT 2FM using a 0.5% to 1% spray in and around both food and non-food locations, treating localized areas where cockroaches, silverfish, ants, and flies have been seen or are suspected of hiding or entering. Do not use as a space spray or allow spray to contact food, food processing surfaces, or utensils. Make applications using low pressure.

This product is authorized for use in inedible product areas of Federally Inspected Meat and Poultry Plants.

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KNOX OUT 2FM INSECTICIDE

USE FOR CONTROL OF YELLOWJACKETS IN THE 11 CONTIGUOUS WESTERN STATES ONLY: ARIZONA, CALIFORNIA, COLORADO, IDAHO, MONTANA, NEW MEXICO, NEVADA, OREGON, UTAH, WASHINGTON, WYOMING

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

For the control of scavenger yellowjackets (*Vespa pensylvanica*, *V. vulgaris*), apply KNOX OUT 2FM as a bait as described below.

BAIT PREPARATION AND DISPENSER DISTRIBUTION

To about 3 ounces (6 level tablespoons) of the preferred bait, add 1/2 teaspoon of KNOX OUT 2FM. This amount of bait is sufficient for one dispenser. Do not mix more than the recommended amount of KNOX OUT 2FM to the desired bait, or yellowjacket avoidance may occur.

Mix only enough bait for immediate use in the desired number of dispensers. Add bait to each dispenser until it reaches about midway between the container bottom and the access holes. Hang the dispenser, preferably in a sunny location, from tree limb or other suitable support around the periphery of the area to be protected. For best results, use 3 to 4 dispensers per acre, or place them about 100 feet apart.

REAPPLICATION AND BAIT LONGEVITY

Replenish dispensers with fresh bait as long as yellowjackets are present. Unused bait will probably be unattractive to yellowjackets after 2 days, especially if temperatures are above 90°F. If possible, stir bait once each day before yellowjacket activity begins in order to bring fresh bait to the surface. If pest yellowjackets reappear in late summer, retreat the area.

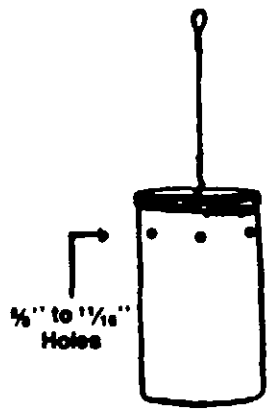
Properly dispose of any unused or stale bait. Do not reuse dispensers for any other purpose.

BAIT ATTRACTIVENESS

Attractiveness of baits to yellowjackets is highly variable and is dependent on such factors as stage of reproductive cycle, type of bait, quality of bait, etc. Before using KNOX OUT 2FM it is recommended that bait preference be determined by placing several candidate baits in a location where yellowjacket activity is occurring. By observing the visitation frequency for a short time, preference will become apparent.

BAIT DISPENSER

In a four to six ounce non-food container with a removable top, drill three to six holes 1/8" to 1/16" in diameter around the top of container and two small holes (for attaching wire) in the top.



BAIT SOURCES AND SUGGESTIONS

KNOX OUT 2FM is recommended for use with any of the baits from the categories listed below. In order to maximize efficiency, particles of the selected bait should be reduced to 1/16 inch diameter or smaller. If any bait is dry after preparation, add sufficient water to increase the total moisture content.

Canned Pet Foods—Cat food containing fish is generally the most attractive bait, although meat and poultry products usually are suitable.

Fresh Meat, Fish, and Poultry—Hamburger or salmon is generally the most attractive bait. The selected product should be cooked until the red color barely disappears. Some products, like red salmon, will retain a red color even after cooking. All traces of free grease should be removed.

Canned Meat, Fish, Poultry, and Processed Meats—(ham, cold cuts, etc.)—These products are often very attractive to yellowjackets and need not be cooked.

GREENHOUSES AND INTERIORSCAPES

Use in greenhouses is covered by the requirements of the Worker Protection Standard, 40CFR Part 170. See supplemental labeling for instructions on Personal Protective Equipment (PPE), reentry information, and User Safety Recommendations.

For control of Aphids, Fungus Gnat Larvae, Leafminers, Mealybugs, (Citrus, Stem and Root), Mites, Scale Insects and Thrips:

Apply KNOX OUT 2FM to the ornamentals listed on this label at a rate of 0.5 to 1.0 fl. oz. per gallon of water (3-6 pints/100 gallons).

Treat when insects appear. Use higher rate for heavy insect infestations. Repeat applications as necessary.

ORNAMENTALS

African Violets	Flat Topped Sedum	Petunia
Agapanthus	Floss Flower	Photinia
Ageratum	Friendship Plant	Pineapple Guava
Aluminum Plant	Gardenia	Pittosporum
Alyssum	Gazinia	Podocarpus
Arrowhead	Geranium	Primrose
Azalea	Golddust	Privet
Begonia	Honeysuckle	Pyracantha
Bird's Nest Fern	Hydrangea	Raphiolepis
Boston Fern	Ilex	Rhododendron
Bottlebrush	Impatiens	Rose
Cactus	Ivy	Salvia
Calendula	Jade Plant (Crassula)	Sansevieria
Cameia	Japanese Arelia	Scarlet Sage
Cecilia Jewel Box	Juniper	Snake Plant
Chrysanthemum	Leucothoe	Soapdragon
Cockscomb	Lilac	Spider Plant
Coleus	Malus	Star Jasmine
Cotoneaster	Maranta	Strawflower
Crape Myrtle	Marigold	Tahitian Bridal Veil
Croton	Nandia	Velvet Plant (Gynura)
Daisy	Oleander	Verbena
Dianthus	Orchid	Virvia
Dogwood	Osmanthus	Wandering Jew
Escalonia	Pachysandra	Wax Plant
Eucaymus	Periwinkle	Zinnia

Do not use on Bella Palm, Dracaena, Hoya, Maidenhand Fern, Neph, Poinsettia, and Prayer Plant.

KNOX OUT 2FM has demonstrated excellent plant safety; however, all varieties of the plants listed above have not been tested. When treating large numbers of plants of a single variety, spray a few plants and observe for phytotoxicity prior to full scale application.

KNOX OUT 2FM may not control some organophosphate resistant ornamental plant pests.

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse. Keep out of reach of children.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees.

STORAGE AND DISPOSAL

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

STORAGE: Store in original container only, preferably in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizer, food or feed could occur. If spilled during storage or handling, soak up spillage with absorbent material and dispose of in accordance with Pesticide Disposal instructions listed below.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. **ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.**

Elf Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Elf Atochem.

Made and Printed in U.S.A.

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SUPPLEMENTAL LABELING

KNOX OUT® 2FM

EPA Reg. No. 4581-335

USE IN GREENHOUSES

WORKER PROTECTION STANDARD RULES

This supplemental label must be in the possession of the user, and its instructions followed, when KNOX OUT 2FM is used in greenhouses.

DIRECTIONS FOR USE

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

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, 40CFR 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 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
- shoes plus socks

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. ~~Wash thoroughly with soap and water after handling.~~ Keep out of reach of children.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes, plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees.

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.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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