

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 2, 2015

Frank Sobotka, Ph.D. Agent for Gil Manufacturing Co., Inc. c/o IPM Resources LLC 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238

Subject: Label and CSF Amendment – Revised Basic CSF to reflect the correct nominal

concentration of the active ingredients, in addition to minor label revisions.

Product Name: OPTI MIST 30 30 ULV E.C.

EPA Registration Number: 11930-12

Application Date: June 23, 2014; June 2, 2015

Decision Number: 493659; 508766

#### Dear Dr. Sobotka:

The amended label and CSF referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF:

### Basic CSF dated 06/01/2015

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false

Page 2 of 2 EPA Reg. No. 11930-12 Decision No. 493659; 508766

or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Jennifer Gaines at 703-305-5967 or via email at gaines.jennifer@epa.gov.

Sincerely,

M M Mm

Jennifer Urbanski, PhD, Product Manager 4 Invertebrate and Vertebrate Branch 1 (IVB1)

Registration Division (7505P)

Office of Pesticide Programs

Enclosure

## **OPTI MIST 30-30ULV E.C.**

For use only by Federal, State, Tribal, or local governmental officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the State or Tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

## [Mkt Statement: A Synergized Permethrin Formulation]

For Effective Control of Adult Mosquitoes (including organophosphate resistant mosquitoes). Midges (Biting and Non-Biting) and Blackflies. For ULV, Thermal and Barrier Applications using Ground and Aerial Equipment for control of Adult Mosquitoes and other biting flies. Emulsifiable formulation Allows Dilution with Water or Oil. May be Applied Undiluted. For Surface and barrier applications using handheld equipment. Quick Knockdown end effective control of Target Insects. For ULV applications at rates up to 0.007 lbs. a.i. per acre. For barrier application at rates up to 0.1 lb.. a. i. per acre. Compatible with injector mixing systems or other insecticide mixing systems.

### **ACTIVE INGREDIENTS:**

*Permethrin	30.0%
Piperonyl Butoxide	30.0%
OTHER INGREDIENTS:***	
Total	

<sup>\* (3-</sup>phenoxyphenyl)methyl( +/- ) Cis/trans 3-(2,2-dichloroethenyl)2,2-Dimethy lcyclopropane carboxylate. Cis/trans ratio: min. 40% (+/-) cis and max. 60% (+/-) trans.

Contains: 2.595 lbs. a.i. of Permethrin and 2.595 lbs. a.i. of Piperonyl Butoxide per gallon.

EPA Reg. No. 11930-12

EPA Est. No. 62171-MS-001

# KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

PRECAUCION AL USUARIO: Si usted no lee ingles. No use este producto hasta que la etiqueta haya sido explicado ampliamente. (To the User: If you cannot read English, do not use this product until the label has been fully explained to you.)

ACCEPTED

See Side or Back Panel for Additional Precautionary Statements.

Sep 02, 2015
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

	FIRST AID	and Rodenticide Act as amended, for pesticide registered under EPA Reg. No. 11930-12	
IF ON SKIN OR CLOTHING:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minu</li> </ul>		
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
IF SWALLOWED:	<ul> <li>Call a Poison Control Center or doctor Immediately for treatment advice.</li> <li>Do not Induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give any liquid to the person.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>		
	May pose an aspiration pneumonia hazard. Contains petroleum distributed in the control center or doctor c		
	For Emergency Medical treatment Call: 1 - (800) 858-7378		

Page | 1

<sup>\*\*\*</sup> Contains petroleum distillate.

## Gil Manufacturing, Inc.

P.O. Box 242725 • Montgomery, AL 36124 • U.S.A. FOR MORE INFORMATION CALL 1-800-445-0180

NET CONTENTS: 2½ Gal. 5 Gals. 30 Gals. 55 Gals. Batch Code: No.

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION!** Contains petroleum distillate. Harmful if absorbed through the skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions In some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are: barrier laminate, nitrile rubber, neoprene rubber, or Viton. Mixers, loaders, applicators, and other handlers must wear:

- long-sleeve shirt and long pants:
- · shoes plus socks.

In addition, all handlers except for applicators using motorized ground equipment, pilots and flaggers, must wear chemical-resistant gloves. In addition, mixers loaders, persons cleaning equipment, and other persons exposed to the concentrate must wear a chemical-resistant apron. See *Engineering Controls* section for additional requirements.

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

**Engineering Controls:** Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

## **USER SAFETY RECOMMENDATIONS**

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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.

#### **ENVIRONMENTAL HAZARDS**

This product is extremely toxic to aquatic organisms including fish and aquatic invertebrates. Runoff from treated areas or deposition to bodies of water may be hazardous to fish and other aquatic organisms. Do not apply over bodies of water, (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present and

weather conditions will facilitate movement of applied material away from water to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters. Before making the first application in a season it is advisable to consult with the State or Tribal Agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

**BEE WARNING:** This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto blooming crops or weeds when bees are foraging the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a State, Tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the State or Tribe during a natural disaster recovery effort.

## PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in its original labeled container in a cool, dry, locked place designated for such insecticides and out of reach of children. Do not expose to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust, or fullers earth; sweep up and place in a labeled container and dispose of as follows.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying. Containers (Capacity <5 gallons): Triple rinse as follows: Emptying the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Container (Capacity >5 gallons): Triple rinse as follows: Empty the remaining contents into application or mix tank. Fill container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the inside of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip. Offer for recycling, if available.

## **DIRECTIONS FOR USE**

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

## **Application Directions**

**OPTI MIST 30 30 ULV E.C.** is formulated as an Emulsifiable Concentrate (EC) and can be diluted with water or oil. The product is designed for application as an Ultra-Low Volume (ULV) or thermal aerosol to control adult mosquitoes and flies of nuisance, public health or disease vector importance in residential areas, industrial areas, commercial areas, urban areas, parks, campgrounds, woodlands, athletic fields, golf courses, playgrounds, recreational areas, overgrown waste areas, roadsides, and other areas where adult mosquitoes and flies may be found, such as, in corrals, feedlots, animal confinement houses, swine lots, poultry ranges, zoos, and also over crops as listed on this label (See **General Application Restrictions**).

**OPTI MIST 30 30 ULV E.C.** can be applied with ULV cold aerosol generators, thermal aerosol generators, mist-blowers, backpack sprayers, or handheld sprayers. Mist-blowers, Backpack sprayers, handheld sprayers and low-pressure hand sprayers may only be used for barrier or surface applications.

**OPTI MIST 30 30 ULV E.C.** provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies, horn and heel flies, and nuisance flying insects such as houseflies. For best results treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the fog near the ground e.g. cool temperatures, and consistent wind speeds are not greater than 10 m.p.h. Applications during the cool hours of night or early morning are preferred. When targeting *Aedes taeirorhynchus* and other difficult species applications with PBO may be made up to 0.08 lbs. PBO per acre.

More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a State, Tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the State or Tribe during a natural disaster recovery effort.

## **Use Restrictions:**

- Do not retreat the same site more than once in 3 days.
- Do not exceed 25 applications at 0.007 lbs. permethrin per acre, per application or 0.025 lbs. PBO per acre, per application or 0.18 lbs. of permethrin per acre, per season or 2.0 lbs.PBO per acre, per year.
- Apply this product at temperatures greater than 50°F.
- Apply when wind speed is more than 1 m.p.h.
- Do not allow spray treatments to drift on cropland (other than crops listed in the *Crop Applications* section of this label), or into water supplies.
- Do not make applications during rain.
- Do not wet plants to point of runoff or drip.
- In the treatment of corrals, feedlots, animal confinement houses, swine lots, poultry ranges and zoos, cover any exposed drinking water, drinking fountains and animal feed before application.
- Make treatments only when air temperatures are greater than 50° F.
- Except when treatment is made as a wide-area mosquito adulticide application do not enter or allow others to enter treated area until sprays have dried.
- Do not apply directly to sewers or drains, or to any areas, like a gutter, where drainage to sewers, storm drains, water bodies or aquatic habitat can occur, except as directed by this label.
- Do not use in outdoor residential misting systems.
- Do not use in metered release systems.

OPTI MIST 30 30 ULV E.C. must only be applied in the growing vicinity of specific crops and range
grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to areas
to where these crops are grown:

Alfalfa Corn, grain (field and pop) Peaches Almonds Corn. stover Pears Pistachios Apples Corn. sweet kernel + cob Artichoke, globe with husks removed Peppers, bell Asparagus Eggplant Potato Avocados Filberts Range Grasses Broccoli Garlic Sovbeans Brussels sprouts Horseradish Spinach Tomatoes Cabbage Kiwifruit Cauliflower Leafy Vegetables (except Vegetables, cucurbit Celery Walnuts Brassica) Watercress Cherries Lettuce, head Corn, forage Mushrooms Corn, fodder Onions, dry bulb

## **GROUND ULV APPLICATION**

For Vehicle-Mounted ULV Cold Aerosol Generators (Cold fog): Apply through non-thermal ULV application equipment and base all acreage calculations on the equipment manufacturer's listed swath width.

Spray equipment must be adjusted so the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 microns) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50m). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser based measurement Instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated. Apply at a rate not to exceed 0.007 pound of permethrin per acre. An optimum swath is created when **OPTI MIST 30 ULV E.C.** is applied from a truck being driven perpendicular to the wind direction. Direct the spray head of the equipment to ensure an optimum distribution of the spray cloud throughout the area. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud near the ground. An inversion of air temperatures and a light breeze of approximately 1 to 3 m.p.h. is preferable. Do not make applications when wind speed exceeds 10 MPH. Application of this product during cooler hours of the night or early morning is best.

**OPTI MIST 30 30 ULV E.C.** may be applied through all ULV Cold Aerosol Generators, or other similar equipment designed for non-thermal ULV aerosol applications. The desired application rate may be obtained from the adjacent chart or by altering the flow rate of the product from the application equipment and the vehicle speed. Some examples are provided in the following chart. When an alternate rate is required, adjust the flow rate accordingly, provided that the droplet size and spectrum remain within this label's specifications.

\*Dilution Instructions: Fill tank with appropriate amount of water for the desired dilution, then add OPTI MIST 30 30 ULV E.C. and mix well. The use of metering pumps, injector systems or other mixing systems is optional. Note: When using oil as a diluent thoroughly agitate well before use. Where dense vegetation is present, use higher rates of application and/or a slower speed for best results.

## FLOW RATE FOR OPTI MIST 30 30 ULV E.C. (Diluted With Water or Oil – Based on a 15 Gallon Tank)

Application Rate Lbs Permethrin	Vehicle Speed	Fluid Ounces to Apply Per Minute				
per Acre	(MPH	Undiluted	Diluted 1 to 4	Diluted 1 to 5	Diluted 1 to 6.5	Diluted 1 to 9
0.00150	10	0.46	2.32	2.77	3.50	4.7
	15	0.70	3.47	4.15	5.20	7.00
	20	0.93	4.64	5.60	7.00	9.30
0.00175	10	0.55	2.70	3.24	4.05	5.40
	15	0.82	4.05	4.84	6.07	8.10
	20	1.09	5.40	6.48	8.10	10.80
0.0035	10	1.09	5.40	6.48	8.10	10.80
	15	1.65	8.10	9.68	12.10	16.10
	20	2.19	10.30	12.90	16.10	21.50
0.007	10	2.19	10.70	12.90	16.10	21.50
	15	3.28	16.10	19.40	24.20	
	20	4.38	21.40	25.80		

#### BACKPACK OR HANDHELD SPRAY APPLICATIONS

Apply through non-thermal ULV application equipment and base acreage applications on a 300-foot swath. To apply undiluted at 0.007 pounds of pemethrin per acre adjust equipment to an output rate of 0.86 ounces per minute and walk at 4 m.p.h. To apply 0.0035 pounds of permethrin per acre, dilute 1 part **OPTI MIST 30 30 ULV E.C.** with 6 parts of diluent and apply at a rate of 3 ounces per minute and walk at 4 m.p.h.

## THERMAL AEROSOL APPLICATION

For use in truck mounted, handheld or other thermal fogging equipment. Spray equipment must be adjusted so the volume median diameter or mass median diameter is less than 30 microns (Dv 0.5 < 30 microns) and that 90% of the spray is contained In droplets smaller than 50 microns (Dv 0.9 < 50 microns). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated. Apply this product mixed with water or oil at a rate not to exceed 0.007 lbs. per acre. Base acreage calculations on a 300 feet swath. For best results, direct the thermal fog into and allow to drift through areas where adult mosquitoes are found.

**BARRIER APPLICATIONS:** To control resting or flying adult mosquitoes in areas of animal quarters, roadsides, urban areas, residential areas, commercial areas, industrial areas, golf courses, parks, recreational areas, tire piles and all public areas where adult mosquitoes occur or find harborage. May be used to treat aggregation and harborage areas in the perimeter of residential buildings, commercial buildings, storage buildings, crawl spaces, transport trailers, abandoned or uninhabited buildings and other areas where adult mosquitoes find harborage.

To apply this product using low pressure hand sprayers or other similar equipment, for the control of mosquitos on resting or aggregation surfaces mix 0.0875 oz. (2.59 ml) in one gallon of water and apply sufficient spray to dampen the surface - approximately 700-750 square feet of treated area. Use equipment that is capable of delivering an even distribution of the labeled rate over the treatment area. For application using backpack or truck-mounted mist-blower equipment apply **OPTI MIST 30 30 ULV E.C.** undiluted at a rate not to exceed 5.08 oz. per acre. If diluted apply at a rate not to exceed 0.1 lb. permethrin a.i. per acre. Diluted or undiluted applications may be made onto foliage at the perimeter of areas in recreational areas, parks, or golf courses,

from which mosquitoes or flies are to be excluded. Applications may be directed into harborage areas or other resting areas where adult mosquitoes or flies may be found

## **Barrier Application Restrictions:**

• Do not apply within 100 feet (31) meters of lakes and streams when applying this product as a barrier application using low pressure hand sprayers, hydraulic sprayers or ground ULV equipment.

#### URBAN ULV MOSQUITO CONTROL APPLICATIONS

For control of resting or flying adult mosquitoes, biting flies and biting midges in harborage areas in utility tunnels, sewers, storm drains and catch basins, pipe tunnels, basements, under-ground passages, parking decks, crawl spaces under buildings, abandoned buildings or uninhabited buildings. Apply **OPTI MIST 30 30 ULV E.C.** diluted or undiluted using mechanical foggers, handheld or truck mounted ULV equipment thermal foggers or other spray equipment suitable for this type of application. **OPTI MIST 30 30 ULV E.C.** may be applied at rates up to but not exceed-ing 0.007 lbs. permethrin per acre.

## Aerial Application Made at ≤ 200 Feet Above Ground Elevation

Apply **OPTI MIST 30 30 ULV E.C.** either diluted or undiluted at rates up to 0.007 lb. permethrin / piperonyl butoxide per acre by fixed wing or rotary aircraft equipped with a spraying system capable of making a ULV application. For aerial applications of **OPTI MIST 30 30 ULV E.C.** use ULV equipment and nozzles such as rotary atomizers or similar spray equipment. Spray equipment must be adjusted so the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 microns) and that 90% of the spray is contained In droplets smaller than 100 microns (Dv 0.9 < 100 m). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rates(s) are properly calibrated.

Do not apply when ground wind speed wind exceeds 10 MPH. Aerial applications of **OPTI MIST 30 30 ULV E.C.** shall only be made when recommended by public health officials and trained personnel of Mosquito Abatement Districts and other mosquito control programs.

For best results, apply **OPTI MIST 30 30 ULV E.C.** when insects are most active and meteorological condi-tions are conducive to keeping the spray cloud near the ground. Aerial applications using aircraft equipped with global positioning systems (GPS) may be needed to compensate for windy conditions and to ensure drift into target areas.

## Aerial Application Made at > 200 Feet Above Ground Elevation

Spray equipment must be adjusted so that the volume median diameter product is less than 70 microns (Dv 0.5 < 70 um) and that 90% of the spray is contained in droplets smaller than 145 microns (Dv 0.9 < 145 microns). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

## **Aerial Application Restrictions:**

- Do not apply by aircraft in the **State of Florida** unless approved by the Florida Department of Agriculture and Consumer Services.
- Do not apply by fixed wing aircraft at a height less than 100 feet, or by helicopter at a height less than 75 feet unless specifically approved by the state or tribe based on public health needs.

## **CONDITIONS OF SALE AND WARRANTY**

Buyer and user assume all risk and liability of use, storage and/or handling of this product Not in accordance with the terms of this label.

<b>Product Batch Code No</b>	
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EPA Registered: [Date]

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Page | 8

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