71711-25 08/11/2005 1/13

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:	Date of Issuance:
71711-25	AUG 11 2005

Term of Issuance: Conditional

NOTICE OF PESTICIDE:
x Registration
____ Reregistration
(under FIFRA, as amended)

Name of Pesticide Product:
ET 2 %SC
Herbicide/Defoliant

Name and Address of Registrant (include ZIP Code):

Nichino America.
4550 New Linden Hill Road - Suite 501
Wilmington, DE 19808

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data.

2. Make the following label changes listed below before you release the product for shipment:

a. Add the phrase, "EPA Reg. No. 71711-25".

b. In Noncrop Weed Control in the table at bottom of page 9 correct the restriction to read:

Do not exceed two applications or 6.8 fl oz/A per season for non-crop weed control.

Signature of Approving Official: Joanne J. Miller

Date: AUG 11 2005

EPA Form 8570-6

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3. Submit one (1) 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.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

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NICHINO AMERICA, INC.

ET® 2%SC Herbicide/Defoliant

A Nonselective Contact Herbicide for Broadleaf Weed Control

(NOT FOR HOMEOWNER USE)

Alternate Brand Name: **EDICT® 2%SC IVM Herbicide**
For Noncrop Weed Control and Industrial Vegetation Management

Active Ingredient:

Pyraflufen ethyl (ethyl 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-1*H*-pyrazol-3-yl)-4-fluorophenoxyacetate	2.0%
Other Ingredients:	98.0%
Total:	100.0%

Contains 0.177 lb. pyraflufen ethyl per gallon (20 grams per liter)

EPA Reg. No. 71711- EL **EPA Est. No.**

ACCEPTED
with COMMENTS
In EPA Letter Dated:
AUG 11 2005
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.
71711-25

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If on skin or clothing	▪ Take off contaminated clothing. ▪ Rinse skin immediately with plenty of water for 15-20 minutes. ▪ Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300.	

For product information use internet website www.nichino.net

Net Contents: _____

Active Ingredient Made in Japan; Formulated and Packaged in U.S.A.

Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808
www.nichino.net

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (Selection Category A).

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves

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. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

ENGINEERING CONTROLS STATEMENTS
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates. This product may contaminate water through drift of spray in wind or via runoff events. Use care when applying in areas adjacent to any body of water. Do not apply directly to water, 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 washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Do not apply if rainfall is expected within one hour.

SPRAY DRIFT

Avoid spray drift to all other crops and nontarget areas. Do not apply when weather conditions may cause drift. Do not allow this product to drift onto nontarget areas. Drift may result in illegal residues or injury to adjacent crops and vegetation, in the form of leaf yellowing and defoliation. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet size will also reduce spray drift.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Droplet size, boom height, and wind speed are the primary factors determining drift. The specific application conditions required for the use of this product are described below.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions)

Controlling Droplet Size

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Maintenance of Nozzles – Periodic inspection and subsequent replacement of nozzles to ensure proper chemical application is recommended.

Boom Length

For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

Wind
Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity
When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions
Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light and variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas
The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

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, 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 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
- Chemical resistant gloves
- Shoes plus socks

NONAGRICULTURAL 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 (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. For other uses, including interiorscapes and other nonagricultural uses, do not enter treated areas without protective clothing until sprays have dried.

GENERAL INFORMATION

ET® 2%SC is designed for use as a preplant or preemergence burndown treatment in field corn, cotton, soybeans, and wheat; for weed control in fallow land, noncrop land and uncultivated agricultural areas (nonfood producing); and as a nonselective herbicide for control of broadleaf weeds in noncrop areas. The contents should be mixed in water, using sufficient volume to permit thorough coverage of crop foliage and stems and applied using broadcast spray techniques.

Only certified applicators are permitted to apply **ET 2%SC** for turf and ornamental sites.

USE RESTRICTIONS

- Do not apply more than 2.4 fl oz/acre to field corn, cotton, soybeans, or wheat, prior to planting, or emergence of crop only.
- **Do not apply this product through any type of irrigation system.**

WEEDS CONTROLLED

The following broadleaf weed species can be controlled by applications of **ET 2%SC** in the manner described below at 3 to 6 inches tall. Tankmixes of **ET 2%SC** with other herbicides may be needed for control of larger weeds:

Bedstraw	Nettle, stinging
Beggartick, hairy	Nightshade, black
Bindweed, field	Pigweed, redroot
Canola	Poison ivy
Carpetweed	Purslane, common
Chickweed	Radish, wild
Cocklebur	Ragweed, common
Dock, curly	Russian thistle
Eveningprimrose, cutleaf	Sesbania, hemp
Henbit	Shepherds purse
Kochia	Smartweed, Pennsylvania
Knotweed, prostrate	Sowthistle, annual
Ladysthumb	Spurge, leafy
Lambsquarters	Sunflower, common
Lettuce, prickly	Toadflax, Dalmatian
Mallow, common	Velvetleaf
Morningglory, entireleaf	Waterhemp, tall
Morningglory, ivyleaf	Wildbuckwheat
Morningglory, pitted	
Mustard, wild	

MIXING DIRECTIONS

Add ½ to ¾ of the required amount of water to the spray tank. Start agitation. Add the required amount of **ET 2%SC** and the remaining amount of water. Mix only as much spray solution as can be sprayed within four hours. Storage and use of the previous day's spray mix may result in reduced activity.

TANK MIXTURES

ET 2%SC may be applied as a tankmix or in sequential application with other herbicide, fungicide, or insecticide products. Weather, crop conditions, or the presence of certain weeds, crop damaging insects, or diseases will indicate the inclusion of other pesticides in the application.

It is recommended that the compatibility of ET in any tankmix combination be tested before use. To determine the physical compatibility with other products, use a jar test, as described below:

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Read and follow all label directions for each tankmix product. Always use in accordance with the most restrictive of label precautions and limitations.

EQUIPMENT CLEANING

Do not allow the spray solution to dry in the application equipment. After application and before using the sprayer equipment for any other applications, the sprayer must be thoroughly cleaned. Applicators must ensure proper equipment clean-out for any other products mixed with ET 2%SC as provided on the other product label(s). Immediately following application, clean all equipment thoroughly with detergent or a spray tank cleaner and water as described below. Should residues of ET 2%SC remain in inadequately cleaned equipment, they may be released in subsequent applications and cause injury to crops.

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse with clean water the inside of the spray tank, sprayer hoses, boom, and nozzles to remove any sediment or residues.
2. Fill the tank ½ full with clean water, add the appropriate detergent (follow manufacturer's directions for use). Fill tank to capacity and operate the sprayer with agitation for 15 minutes to flush hoses, boom, and nozzles.
3. Drain the sprayer tank, lines, and booms. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray nozzles, tips, and screens.
4. Dispose of all cleaning solutions, rinsate, and washwaters in accordance with Federal, state, and local regulations.

APPLICATION AND DOSAGE

Field Corn, Soybeans, Wheat, Cotton, (Limited to Preplant Burndown)
For best results, use **ET 2%SC** herbicide for control of annual or perennial herbaceous broadleaf weeds less than 4" in height, or rosettes less than 3" in diameter. Thorough, uniform spray coverage is essential for good control. **ET 2%SC** herbicide may be applied preplant burndown in cereal crops, peanuts, rice, sorghum, and sugarcane to control broadleaf weeds or in tank mixtures with glyphosate or other grass herbicides for broad spectrum weed control (see below).

Crop	Pest	Rate/Acre	Use Restrictions and Comments
Field corn Cotton Soybeans Wheat	Broadleaves	0.7 to 2.4 fl oz/A plus Weedmaster®,2,4-D, or dicamba in a minimum of 5 gpa by air or 10 gallons water per acre by ground*	▪ Use the higher rate and spray volumes for control of larger weeds (4-6" tall). Weeds larger than 6" tall may not be controlled. ▪ Allow a minimum of 30 days between applications. ▪ Treated areas may be replanted immediately with any crop listed on this label. ▪ Do not plant any other rotational food crops for 30 days after the last application of **ET 2%SC**. ▪ Do not allow livestock to graze in treated areas. ▪ Do not apply more than 2.4 fl oz/A for this use.
	Grasses and Broadleaves	0.7 to 2.4 fl oz/A plus registered glyphosate product in a minimum of 5 gpa by air or 10 gallons water per acre by ground	

* use higher rates for hard to control weeds such as Canada thistle, field bindweed, and kochia

Fallow Land (Limited to Chemical-Treatment Only)

ET Herbicide in Tankmixes for Control of Broadleaf and Grass Weed Species

For best results, use **ET 2%SC** herbicide for control of annual or perennial herbaceous broadleaf weeds less than 4" in height, or rosettes less than 3" in diameter. Thorough, uniform spray coverage is essential for good control. **ET 2%SC** herbicide may be applied after the harvest of any crop to control late emerging broadleaf weeds or in tank mixtures with glyphosate or other grass herbicides for broad spectrum weed control (see below).

Application Directions

Crop	Pest	Rate/Acre	Use Restrictions and Comments
Fallow Land	Broadleaves	0.5 to 2.0 fl oz/A plus Weedmaster®, 2,4-D, or dicamba in a minimum of 10 gallons water per acre*	• Use the higher rate and spray volumes for control of larger weeds (4-6" tall). Weeds larger than 6" tall may not be controlled. • Do not make more than 3 applications or exceed 5.5 fl oz/A during the fallow period. • Allow a minimum of 30 days between applications. • For crops not listed on this label, applications must be made at least 30 days prior to planting. • Do not allow livestock to graze in treated areas.
	Grasses and Broadleaves	0.5 to 1.0 fl oz/A plus registered glyphosate product in a minimum of 10 gallons water per acre	

* use higher rates for hard to control weeds such as Canada thistle, field bindweed, and kochia

Noncrop land and uncultivated agricultural areas (nonfood producing) such as soil bank lands, barrier strips, farmyards, fence rows, rights-of-way, or fuel storage areas

ET 2%SC herbicide may be used in tankmixes with other herbicides to control broadleaf and grassy weeds in noncrop situations. For best results, use **ET 2%SC** herbicide for control of annual or perennial herbaceous broadleaf weeds less than 4" in height, or rosettes less than 3" in diameter. Thorough, uniform spray coverage is essential for good control.

Crop	Pest	Rate/Acre	Use Restrictions and Comments
Noncrop lands and uncultivated agricultural areas	Broadleaved weeds	0.7 to 2.8 fl oz/A plus Weedmaster®, 2,4-D, or dicamba in a minimum of 5 gpa by air or 10 gallons water per acre by ground*	• Use the higher rate and spray volumes for control of larger weeds (4-6" tall). Weeds larger than 6" tall may not be controlled. • Do not make more than 3 applications or exceed 6.8 fl oz/A per year for this use. Allow a minimum of 30 days between applications. • For crops not listed on this label, applications must be made at least 30 days prior to planting. • Do not allow livestock to graze in treated areas.
	Grasses and Broadleaved weeds	0.7 to 1.4 fl oz/A plus registered glyphosate product in a minimum of 5 gpa by air or 10 gallons water per acre by ground*	

* use higher rates for hard to control weeds such as Canada thistle, field bindweed, and kochia

Noncrop Weed Control

For use in noncrop areas where control of weeds is desired, such as airports; commercial plants; storage and lumber yards; barrier strips and firebreaks; equipment areas; nurseries and ornamental plantings; sodfarms; Christmas trees; established ornamental turf; railroad, roadside and utility rights-of-way; fuel tank farms and pumping stations; other similar industrial noncrop areas. **Not for homeowner use.**

For applications to ornamental turf and plantings, do not allow people (other than the applicator) or pets on treatment area during application and until sprays have dried (refer to Nonagricultural Use Requirements box). Apply **ET 2%SC** at rates specified in the dosage table below for control of broadleaf weeds. **ET 2%SC** may be tank mixed with other herbicides such as glyphosate for control of grassy weeds. **ET 2%SC** is a broadleaf contact herbicide. **Avoid contact with desirable vegetation.**

Use	Rate and Spray Volume	Use Restrictions and Comments
(See directions for use above for explanation of appropriate use sites)	4 fl oz/A in 20 to 40 gpa using ground or backpack or similar spray equipment	• Make 1 to 2 applications per season to noncrop areas using ground equipment . • Do not exceed two applications or 8 fl oz/A per season for noncrop weed control.
	0.7 to 1.4 fl oz/A in tank mixtures with glyphosate or other grass herbicide	

Backpack Sprayer Dosage Chart

For use in backpack sprayers having tank capacity of 3 to 5 gallons, accurate calibration and measurement of the appropriate amount of product may be difficult due to the very small amounts of product required. For backpack application, it is recommended that a **stock solution containing 3 fluid oz of ET 2%SC per US gallon** be prepared in a clean container and used following the dosage table below. Do not prepare more gallons of stock solution than can be sprayed in one day. Storage and use of the previous day's stock solution may result in reduced activity. Do not mix other herbicides in the stock solution.

Backpack tank capacity (gallons)	Spray volume (gallons/A)	fluid oz product/gal for 1.4 fl oz/A	fluid oz stock solution per tank
3	20	0.21	9
	30	0.14	6
	40	0.11	4.5
4	20	0.28	12
	30	0.19	8
	40	0.14	6
5	20	0.35	15
	30	0.24	10
	40	0.18	8

ROTATIONAL CROP RESTRICTIONS

Do not plant rotational crops other than cotton, potato, corn, soybeans, or wheat for 30 days following the last application of this product.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
Storage: Store in a cool place.
Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Container Disposal: DO NOT reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be accurate and should be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks are assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NAI is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. NAI disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT THE ELECTION OF NICHINO AMERICA, THE REPLACEMENT OF PRODUCT.

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