



66222-32

4-30-2003

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-32	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Cotoran 4L	PM# Team # 25	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. 551 Fifth Ave Suite 1100 New York, NY 10176, 212-661-9800 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION APR 30 2003
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Notification to update label to include some precautionary language. This notification is consistent with the provisions of PR Notice 98-10 and 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jane Rothwell	Title Registration Specialist	Telephone No. (Include Area Code) 901-861-4400
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Specialist	
4. Typed Name Jane Rothwell	5. Date 4-22-03	

Highlighted version
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COTORAN[®] 4L HERBICIDE

FOR PREEMERGENCE AND POSTEMERGENCE WEED CONTROL IN COTTON

ACTIVE INGREDIENT:	% BY WT.
Fluometuron: 1,1-dimethyl-3-(a,a,a-trifluoro-m-tolyl) urea	41.7%
INERT INGREDIENTS:	58.3%
	TOTAL 100.0%

Cotoran 4L contains 4 lbs. active ingredient per gallon.
Use entire contents at one time.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

- | | |
|--------------------------------|--|
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Call a poison control center or doctor for treatment advice. • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. |
| IF SWALLOWED: | <ul style="list-style-type: none"> • Call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice. |

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: If Cotoran DF is ingested, lavage stomach or induce vomiting. A slurry of activated charcoal in water can be left in the stomach. Give a saline laxative and supportive therapy.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

NET CONTENTS: ___ GALLON(S)

EPA Reg. No. 66222-32
EPA Est. No. 11603-IS-01



Makhteshim-Agan of North America, Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-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.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or Viton
- 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.

ENGINEERING CONTROLS STATEMENTS: When handlers use closed systems or enclosed cabs 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.

ENVIRONMENTAL HAZARDS

This chemical is known to leach through soil into ground water under certain conditions as a result of registered uses. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. 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 cleaning equipment or disposing of equipment washwaters.

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 24 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or Viton
- Shoes plus socks.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR WEED CONTROL, AND/OR ILLEGAL RESIDUES.

CHEMIGATION STATEMENT

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

GENERAL INFORMATION

Cotoran 4L is effective for both annual grass and annual broadleaf weed control in cotton.

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WEED CONTROL

Cotoran 4L applied according to directions will selectively control annual weeds in cotton, such as:

ANNUAL GRASS WEEDS

Barnyardgrass	Goosegrass	Fall panicum
Foxtail	Crowfootgrass	Signalgrass (<i>Brachiaria</i>)
Crabgrass	Ryegrass	

ANNUAL BROADLEAF WEEDS

Buttonweed	Lambsquarters	Ragweed
Cocklebur	Momingglory	Sesbania
Florida pusley	Pigweed	Sicklepod
Groundcherry (Wright)	Prickly sida (teaweed)	Smartweed
Jimsonweed	Purslane	Tumbleweed

Cotoran 4L at rates up to 4 pts. per acre in cotton is not effective for the control of established perennial weeds, such as johnsongrass from rhizomes.

APPLICATION PROCEDURES

MIXING INSTRUCTIONS

1. Fill spray tank 1/2 to 3/4 full with clean water or nitrogen solution.
2. Start agitation.
3. Pour Cotoran 4L directly from the container into the partially filled spray tank.
4. If Cotoran 4L is to be tank mixed with another herbicide, add that product after the Cotoran 4L is thoroughly mixed in the partially filled spray tank.
5. Add the rest of the water or nitrogen solution.
6. Provide agitation during mixing and application to maintain a uniform suspension.

To determine compatibility, add two teaspoons of Cotoran 4L to one pint of nitrogen solution (equals 4 pts. in 25 gals.; if using other application rates, adjust compatibility test amounts proportionally). Stir or shake thoroughly. Let stand 5 minutes. If it remains mixed or can be remixed readily, the mixture is compatible and can be used. If Cotoran 4L settles out when mixed with a nitrogen solution, a suspensibility agent, such as Unite[®], Compex[®], or equivalent at 1-3 pts. per 100 gals. fertilizer, may improve compatibility. Add 1/8-3/8 teaspoon of Unite to the compatibility test to determine its effectiveness.

EQUIPMENT

Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials as crop damage or sprayer clogging may result.

Use properly calibrated conventional spray equipment that will apply spray uniformly and has hydraulic or mechanical agitation, except in California or Arizona where only mechanical agitators are recommended. Screens in nozzles, in suction, and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension. Avoid leaving spray mixture in tank without constant agitation. If bypass agitation is used, it should terminate at the bottom of the tank to minimize foaming. Wash sprayer thoroughly with clean water immediately after use.

Apply in a minimum of 10 gals. per acre for preplant incorporated or preemergence applications, or apply in a minimum of 20 gals. per acre for postemergence application.

BAND TREATMENT

For band treatment, calculate the amount of Cotoran 4L needed by the formula:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Amount needed per acre of field}$$

COTTON

Cotoran 4L may be applied as a preemergence treatment to the surface of the soil, or lightly incorporated immediately after planting, or as a directed, semi-directed, or over-the-top postemergence application. For preemergence treatment only, Cotoran 4L may be tank-mixed with most liquid nitrogen fertilizers. Cotoran 4L may be combined with other herbicides in cotton as directed in the section **COMBINATIONS**.

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Cotoran 4L is most effective when used as follows:

1st Application: Preemergence broadcast. See **PREEMERGENCE TREATMENT** below.

2nd Application: Postemergence, directed, semi-directed, or over-the-top when cotton is 3-6 inches high. See **POSTEMERGENCE TREATMENT** below.

3rd Application: If needed, postemergence, directed, or semi-directed, at lay-by (last normal cultivation), using no more than 2 pts. per acre.

PREEMERGENCE TREATMENT

Apply Cotoran 4L at a rate of 2-4 pts. per acre. On light silt and sandy soils low in organic matter, use the lower rate. Cotoran 4L may be applied to the surface of the soil or lightly incorporated into the soil after planting cotton.

PREPLANT INCORPORATED USE (ARIZONA AND NEW MEXICO)

Cotoran 4L may be applied preplant as a broadcast spray at 3.2 pts. per acre after the beds for preplant irrigation have been formed. Apply before the beds are dragged off (using a bed shaper set to remove 1-2 inches from beds) in preparation for planting. Furrow irrigation should precede the application and planting should follow as soon as possible. Plant into untreated soil after drag-off and return treated soil to the beds when furrows are reformed. Do not allow furrow irrigation water to pond over the beds.

POSTEMERGENCE TREATMENTS

Cotoran 4L may be applied postemergence to cotton but preemergence to weeds, or postemergence to both cotton and weeds. Cotoran 4L should be applied at rates of 2-4 pts. per acre. Apply as a directed, semi-directed, or over-the-top spray. Cotoran 4L may be applied to cotton plants at any stage of growth from 3 inches high to lay-by. Use the higher rate when applying postemergence to weeds; weeds should be 2 inches high or less. Use of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran 4L when applied to cotton may enhance the postemergence herbicidal activity of Cotoran 4L. The surfactant rate should not exceed 0.5% of the carrier volume (1 pt. per 25 gals. of water).

PRECAUTION: Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of Cotoran 4L; where dry weather conditions prevail, the herbicidal activity of Cotoran 4L may be delayed or reduced. Cultivate if weeds develop.

Do not make more than three applications of Cotoran 4L to the same crops or field in any one year. Do not plant crops other than cotton within 6 months of the last application of Cotoran 4L or injury may result.

The use of Cotoran 4L (any application method) in conjunction with a systemic insecticide at planting, may result in injury to cotton. In addition, Cotoran applied to cotton with any application of Command® (clomazone) herbicide may result in crop injury. Makhteshim-Agan of North America, Inc., will not be held responsible for losses or damage resulting from such uses.

West Texas only: Do not use Cotoran 4L on sandy, loamy sand, or fine sandy loam soils. Do not use Cotoran 4L on cotton planted in furrows.

Arkansas, Louisiana, and Mississippi only: Use 1.6 pts. of Cotoran 4L per acre on sandy loam soils low in organic matter.

Arizona and New Mexico: Cotton, corn, and grain sorghum can be planted the next spring. Do not plant treated areas to other crops until one year after last application. Do not use on sandy or coarse-textured soil of less than 1% organic matter.

Note: Do not apply within 60 days of harvest. Do not feed foliage from treated cotton plants or gin trash to livestock.

COMBINATIONS

DUAL® 8E: Use in a tank mixture with Cotoran 4L preemergence in cotton for control of all weeds as listed on both labels. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting but before weeds or crop emerge using the appropriate rates from the table below.

COTORAN 4L + DUAL 8E- COTTON (AR, LA, MS, EASTERN OK, TN, BOOTHEEL OF MO, AND GULF COAST, RIO GRANDE VALLEY, AND EASTERN TX):

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	COTORAN 4L	DUAL 8E
Sand, Loamy sand	DO NOT USE	
Sandy loam*	2 pts.	1.25-1.5 pts.
Loam, Silt, Silt loam	2-3.2 pts.	1.5-2 pts.

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Silty clay loam, Sandy clay loam, Silty clay, Sandy clay, Clay loam, Clay	3.2-4 pts.	2 pts.
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*Use on sandy loam soils only in eastern OK and Gulf Coast, Rio Grande Valley, and eastern TX.

PRECAUTIONS:

1. Do not apply Cotoran 4L + Dual 8E on sand or loamy sand soils or in areas where water is likely to "pond" over the bed or crop injury may occur.
2. Do not apply broadcast to furrow-planted cotton.
3. The use of Cotoran (any application method) in conjunction with a systemic insecticide at planting may result in injury to cotton. In addition, Cotoran applied to cotton with any application of Command® (clomazone) herbicide may result in crop injury. Makhteshim-Agan of North America, Inc. will not be held responsible for losses or damage resulting from such uses.
4. Do not use on Taloka silt loam or crop injury may occur.

Refer to the Dual 8E label for further instructions, precautions, and limitations.

Note: Do not feed treated forage or gin trash to livestock or graze treated areas.

Rotational Crops: Refer to the crop rotation instructions for Cotoran 4L alone on this label and for Dual 8E alone on the Dual 8E label.

TREFLAN® EC: Use in a tank mixture with Cotoran 4L (all areas except Arizona and California) or before an overlay with Cotoran 4L in cotton for control of all weeds listed on both labels.

For the tank mixture, follow soil preparation and incorporation procedures for Treflan EC. Apply Cotoran 4L + Treflan EC tank mix at rates specified below in a minimum of 15 gals. of water per acre.

COTORAN 4L + TREFLAN EC TANK MIXTURE- COTTON (ALL AREAS EXCEPT ARIZONA):

SOIL TEXTURE	BROADCAST RATES PER ACRE	
	COTORAN 4L	TREFLAN EC
Sand, Loamy sand, Sandy loam	2 pts.	1 pt.
Loam, Silty clay loam*, Silt loam, Silt, Sandy clay loam*	3.2 pts.	1.5 pts.
Clay, Clay loam, Silty clay loam*, Silty clay, Sandy clay, Sandy clay loam*	4 pts.	2 pts.

*Silty clay loam and sandy clay loam are transitional soils. If these soils are predominantly sand or silt, they are usually classified as medium-textured soils. If predominantly clay, they are classified as fine-textured soils.

For the overlay, apply Cotoran 4L as a preemergence soil surface treatment as recommended on this label at 2-4 pts. per acre after a preplant soil incorporated treatment of Treflan EC. Apply Treflan EC as recommended on its label at 1-2.5 pts. per acre.

PRECAUTION: Do not use the tank mix in Arizona. Do not apply the tank mix of Cotoran 4L + Treflan EC in liquid fertilizer. Refer to the Treflan EC label for directions, precautions, and limitations for use of that product, as well as the directions, precautions, and limitations on this Cotoran 4L label.

PROWL®: Apply Cotoran 4L as a preemergence surface treatment as recommended on this label at 2-4 pts. per acre after a preplant soil-incorporated treatment of Prowl for control of all weeds listed on both labels. Apply Prowl as recommended on its label at 1-3 pts. per acre. Refer to the Prowl label for directions, precautions, and limitations for use of that product.

DSMA OR MSMA: Cotoran 4L may be tank-mixed with DSMA or MSMA and applied as a directed spray to cotton from three inches high to first bloom. Use the broadcast rate of 2-4 pts. of Cotoran 4L per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pt. per 25 gals.) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran 4L + DSMA or Cotoran 4L + MSMA when applied to cotton. When using this mixture, do not allow spray to contact cotton foliage. Do not graze treated areas or feed treated forage or gin trash to livestock. Adhere strictly to the dosage, precautions, and limitations of the labels of the products.

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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

CONTAINER STORAGE: Triple rinse container (or equivalent). 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. Stay out of smoke from burning jugs.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call INFOTRAC at 1-800-535-5053 day or night.

Command® trademark of FMC Corporation

Cotoran® trademark of Agan Chemical Manufacturers Ltd.

Compex® trademark of Kalo Agricultural Chemicals, Inc.

Dual® trademark of Ciba-Geigy for metolachlor

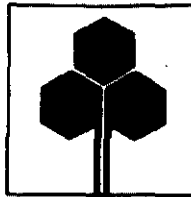
Prowl® trademark of American Cyanamid for pendimethalin

Treflan® trademark of Elanco Products for trifluralin

Unite® trademark of Hopkins Agricultural Chemical Co.

Cotoran 4L (66222-32)(EPA app 4-16-02)(Notif to EPA 4-22-03)

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MAKHTESHIM
A G A N
of
North America
Inc.

April 22, 2003

Document Processing Desk (NOTIF)
Office of Pesticide Programs, (7504-C)
US Environmental Protection Agency
Room 266 A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attn: Mr. James Tompkins
PM (Team 25) (7504C)
Phone 703-305-5697

Re: Cotoran 4L - EPA Reg. No. 66222-32

Dear Mr. Tompkins:

Makhteshim-Agan of North America, Inc., is notifying the agency per PRN 98-10 (reference Section: Adding, Revising or Deleting Advisory Statements) and PRN 95-2 of the addition of precautionary language to the label for the above referenced product.

Statements were copied from Griffins' Cotoran 4L - EPA Reg. No. 1812-439 (copy of label enclosed for reference).

In support of this notification, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1)
- One copy of updated labeling
- One copy of label highlighted with changes
- Copy of Cotoran 4L label (Griffin- EPA Reg. No. 1812-439)

This notification is consistent with the provisions of PR Notice 98-10 and 98-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please contact me at 901-861-4400 if you have any questions.

Sincerely,

Jane Rothwell
Registration Specialist
Enclosures

551 Fifth Avenue, Suite 1100, New York, NY 10176
Tel: 212-661-9800 Fax: 212-661-9038 / 9043