

279-3320

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MAR 9 2009

Callista O. Chukwunenye, Ph.D.  
Manager, Product Registrations  
FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103

**SUBJECT:** Application for Pesticide Notification – Warranty Statement Update, Adding/  
Deleting Pests, and Table Expansion/Reformat  
Echelon® 0.57% Granular Herbicide on Fertilizer  
EPA Reg. No. 279-3320  
Application Dated October 20, 2008

Dear Dr. Chukwunenye:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



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 FMC Corporation/ 279 -3320	2. EPA Product Manager Ms. Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) FMC Corp/Echelon 0.57% Granular Herbicide on Fertilizer	PM# PM-23	
5. Name and Address of Applicant (Include ZIP Code) FMC Corporation 1735 Market Street Philadelphia, PA 19103 <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. 279 - 3320 <b>MAR 9 2009</b> Product Name Echelon 0.57% Granular Herbicide on Fertilizer	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<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 of warranty statement update and minor label change per PR Notice 98-10

This notification is consistent with the provisions of PR Notice 98-10 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 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 checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Package wgt	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input checked="" type="checkbox"/> on label/container	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued 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 Callista O. Chukwunyenye, PhD	Title Manager, Product Registrations	Telephone No. (Include Area Code) (215)299-6592
<b>Certification</b> 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 Manager, Product Registrations	
4. Typed Name Callista O. Chukwunyenye, PhD	5. Date October 20, 2008	

# FMC Corporation

FMC Corporation  
1735 Market Street  
Philadelphia PA 19103

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215.299.6000 phone  
215.299.6947 fax  
www.fmc.com

October 20, 2008

Ms. Joanne I. Miller  
Document Processing Desk  
Herbicide Branch, RD (7505P)  
U.S. Environmental Protection Agency  
One Potomac Yard, Room S-4900  
2777 S. Crystal Drive  
Arlington, VA 22202

Dear Ms. Miller:

**Subject: Notification of warranty statement update, adding and deleting pests and table expansion/reformat  
Per PR Notice 98-10 (Echelon 0.57% Granular Herbicide on Fertilizer, EPA Reg. No.: 279-3320)**

FMC is notifying the EPA that we have made the subject notification-type label change as listed below:

Page 5-6: expanded and reformatted weed table

Page 6: updated the warranty with the statement "to the extent consistent with applicable law".

The changes are shown in red text on the reference pages of the label. A copy is enclosed for your record.

Please do not hesitate to call me if you have any questions. My phone number is (215) 299-6592.

Sincerely,



Callista O. Chukwunye, Ph.D.  
Manager, Product Registrations  
[Callista\\_chukwunye@fmc.com](mailto:Callista_chukwunye@fmc.com)

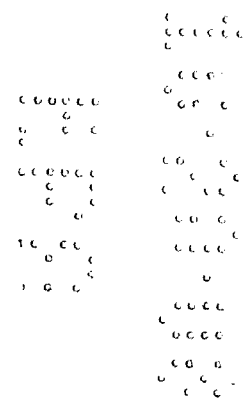
**Enclosures:**

This letter

EPA Form 8570-1

1 copy of the label with the changes in red text

Electronic Pesticide Label CD-ROM for Echelon 0.57% Granular Herbicide on Fertilizer



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**NOTIFICATION**

**MAR 9 2009**

# ECHELON®

0.57% Granular Herbicide on Fertilizer for consumers  
**For Selective Preemergence and Postemergence Control of Sedges,  
Annual Grasses and Broadleaf weeds in Residential Lawns.**

EPA Reg. No. 279-3320

EPA Est. 279-

**Active Ingredient: By Wt.**

Sulfentrazone: N-[2,4-dichloro-5-[4-(difluoro methyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)]phenyl]methanesulfonamide .....	0.19%
Prodiamine: [N3,N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine .....	0.38%
<b>Other Ingredients</b> .....	<u>99.43%</u>
	100.0%

Contains 0.57% pounds of active ingredient per pound of product  
U. S. Patent No. 4,818,275, Patents pending

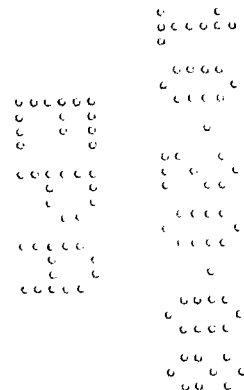
**Guaranteed Analysis XX-X-XX**

<b>Total Nitrogen (N)</b> .....	XX.XX %
XX.XX% Urea Nitrogen	
<b>Soluble Potash (K<sub>2</sub>O)</b> .....	XX.XX %
<b>Sulfur (S) Total</b> .....	XX.XX %
X.XX % Free Sulfur (S)	
X.XX % Combined Sulfur (S)	
<b>Iron (Fe) Total</b> .....	X.XX %
X.XX % Soluble Iron (Fe)	
<b>Derived From:</b> Poly Coated Sulfur Coated Urea, Sulfate Of Potash, Iron Sucrate.	
<b>Chlorine (Cl) Max.</b> .....	X.XX %

- The most effective crabgrass, foxtail, spurge and oxalis preventer you can buy.
- Halts crabgrass and other weeds before they appear
- Halts weeds already present
- Kills broad leaf weeds already in your lawn and prevents the growth on new weeds including broadleaf and grassy weeds and nutsedge

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia PA 19103

10-15-08 Notification



# KEEP OUT OF REACH OF CHILDREN CAUTION

See back for additional precautionary information

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

### New Product Facts

- Echelon is a selective pre-emergence and post-emergence turf herbicide for control of sedges, annual grass and broadleaf weeds in residential lawns.
- Do not use on Dichondra or St. Augustine lawns
- In early spring apply when lawn is dry to kill weeds already in the lawn including Plantain, Oxalis, Dandelion, Violet, Wild onion, Garlic and Black medic and prevent germination of Crabgrass, Foxtail, spurge, Barnyard grass, fall panicum, goosegrass, nutsedge, oxalis, Chickweed, Purslane and Pigweed:
  - Before March 1 in southern California. For best results apply by mid February
  - Before mid March in northern California
  - Early Spring ( up to the time dandelions are in puffball stage) in other states
  - For Goosegrass control repeat application in 8 weeks
- Rain, snow or freezing conditions will not effect the performance of the product.
- In the fall ( August-October) apply after temperatures have cooled and the fall rains have begun to prevent the germination of *Poa annua*, Chickweed, in the fall and crabgrass and oxalis in the spring
- Don't use on newly seeded grassy lawns until after the second mowing. On newly sprigged areas wait 4 months before application
- Do not plant grass seed for four months after using this product.
- Do not apply more frequently than twice a year. Allow at least one month interval between applications
- Do not rake or aerify after application.
- Do not apply this product to flower beds
- Do not graze or feed livestock forage cut from areas treated with Echelon turf herbicide.

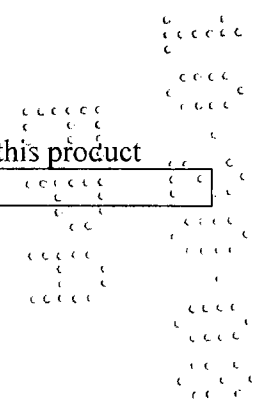
Spreading Tips- Apply header strips. Then apply product in longest direction of lawn..

### Diagram of Spreading TIPS

#### Spreader Settings

For best results, use a Scotts spreader and mow the lawn before applying this product

Scotts Rotary Spreaders	
-------------------------	--



Scotts Speedy Green	<b>4</b> Make each pass about 5 feet from previous pass to overlap spread width
Scotts Easy Green	<b>26.5</b> Make each pass about 30 inches from previous pass to overlap spread width
<b>Scotts Drop Spreaders</b>	
Scotts AccuGreen	<b>6</b> Make sure spreader wheel completely overlaps previous wheel mark
Scotts PrecisionGreen	<b>7</b> Make sure spreader wheel completely overlaps previous wheel mark

**Additional Spreader Settings**

EZ Dorp Republic (#530) ..... 6.5

EZ Broadcast Republic (#540)....4

Scotts Broadcast Tractor Spreader....4

( Non-Scotts spreader settings are approximate and may need to be adjusted for proper coverage)

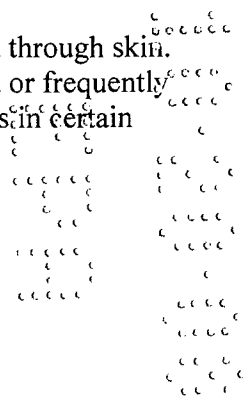
<b>FIRST AID</b>	
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a <u>poison control center</u> or <u>doctor</u> for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a <u>poison control center</u> or <u>doctor</u> for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a <u>poison control center</u> or <u>doctor</u> for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a <u>poison control center</u> or <u>doctor</u> immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the <u>poison control center</u> or <u>doctor</u>.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.	
<b>For Information Regarding the Use of this Product Call 1-800-321-1FMC(1362)</b>	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans (and Domestic Animals)**

**CAUTION**

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing dust. Do not get on skin, in eyes or on clothing. Prolonged or frequently repeated skin contact while mixing or handling may cause allergic reactions in certain individuals.



**Environmental Hazards**

This pesticide is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

**Groundwater advisory:** Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not use on coarse soils classified as sand which have less than 1% organic matter.

**Surface water advisory:** Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Reseal open bag by folding top down and securing. Store in a cool, dry place and avoid excess heat.

**Pesticide Disposal**

Securely wrap original container in several layers of newspaper and discard in trash.

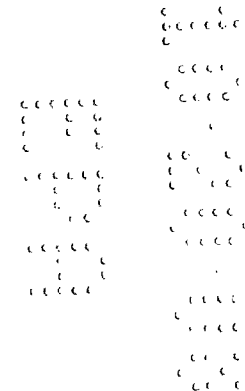
**Container Disposal**

Do not reuse bag. Discard bag in Trash

Table 2.

**Weed controlled from Pre-emergence application of Echelon**

Common Name	Scientific Name
Barnyardgrass	<i>(Echinochloa crus-galli)</i>
Bluegrass annual 1	<i>(Poa annua)</i>
Carpetweed	<i>(Mollugo verticillata)</i>
Carolina Geranium	<i>Geranium carolinianum</i>
Chickweed, common 2	<i>(Stellaria media)</i>
Chickweed, mouseear (from seed)	<i>(Cerastium vulgatum)</i>
Crabgrass ( large, Smooth) 3	<i>(Digitaria spp.)</i>
Crowfootgrass	<i>(Dactyloctenium aegyptium.)</i>
Cupgrass, Woolly	<i>(Eriochloa villosa)</i>
Foxtails, Annual	<i>(Setaria spp.)</i>
Goosegrass 4	<i>(Eleusine indica)</i>
Hairy Bittercress	<i>Cardamine hirsuta</i>



Henbit 2	( <i>Lamium amplexicaule</i> )
Itchgrass	( <i>Rottboellia exaltata</i> )
Knotweed, prostrate	( <i>Polygonum aviculare</i> )
Kochia	( <i>Kochia scoparia</i> )
Kyllinga, green	( <i>Kyllinga brevifolia</i> )
Kyllinga, false	( <i>Kyllinga gracillima</i> )
Lambsquarters, common	( <i>Chenopodium album</i> )
Lovegrass	( <i>Eragrostis spp.</i> )
Nutsedge, yellow	( <i>Cyperus esculentus</i> )
Panicum (Texas, Fall)	( <i>Panicum spp.</i> )
Pigweed, Redroot	( <i>Amaranthus retroflexus</i> )
Purslane, Common	( <i>Portulaca oleracea</i> )
Pusley, Florida	( <i>Richardia scabra L.</i> )
Sedge, globe	( <i>Cyperus globulosus</i> )
Sedge, cylindrical	( <i>Cyperus retrorsus</i> )
Sedge, Surinam	( <i>Cyperus surinamensis</i> )
Sedge, Texas	( <i>Cyperus polystachyos</i> )
Shephardspurse 2	( <i>Capsella bursa-pastoris</i> )
Signalgrass, broadleaf	( <i>Brachiaria playphylla</i> )
Speedwell	( <i>Veronica spp.</i> )
Sprangletop	( <i>Leptochola spp.</i> )
Spurge, prostrate	( <i>Euphorbia humistrata</i> )
Witchgrass	( <i>Panicum capillare L.</i> )
Woodsorrel, yellow (from Seed)	( <i>Oxalis stricta</i> )

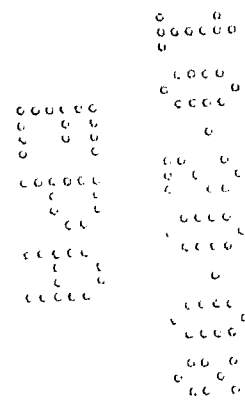
1. Poa annua is a winter annual applications of Echelon should be made in August or September to established, non overseeded turf before Poa Annua germinates. Consult local Cooperative Extension Service for more specific applications timings for your local area since August – September are approximate timings.
2. Apply Echelon in late summer, fall or winter before weed germinates for control.
3. Crabgrass control in cool season grasses from fall application:  
Areas where the ground is subject to winter freezes, Echelon may be applied in the fall at rates listed in Table 1 for cool season grasses when soil temperatures are below 50F, but prior to the ground freezing. This will provide control of crabgrass the following spring.
4. In areas of extended growing season and heavy pressure weed control will be enhanced by second application of Echelon 60 -90 days after initial application

**Postemergence Control of Annual, Biennial & Perennial Broadleaf Weeds and sedges**

ECHELON herbicide will control or suppress the weeds listed in Table 3 when applied shortly after weeds have emerged. Do not exceed the application rate specified for the turf species in Table 1.

**Table 3. Weeds Controlled or Suppressed by Echelon herbicide when application made post emergence to weeds.**

Common Name	Scientific Name	Controlled	Suppressed
Bittercress	( <i>Cardamine spp.</i> )		X
Black medic	( <i>Medicago lupulina</i> )		X
Buttercups	( <i>Ranunculus spp.</i> )		X
Carolina geranium	( <i>Geranium carolinianum</i> )	1	
Carpetweed	( <i>Mollugo verticillata</i> )		X
Chickweed, common	( <i>Stellaria media</i> )	1	
Chickweed, mousear	( <i>Cerastium vulgatum</i> )		X
Cinquefoil	( <i>Potentilla spp.</i> )		X
Clover	( <i>Trifolium spp.</i> )		X
Crabgrass (Large and Smooth)	( <i>Digitaria spp.</i> )	2	
Cudweed	( <i>Gnaphalium spp.</i> )		X
Dandelion	( <i>Taraxacum officinale</i> )		X
Dock, Curly	( <i>Rumex crispus</i> )		X
Evening primrose	( <i>Oenothera biennis</i> )		X
Fiddleneck	( <i>Amsinckia spp.</i> )		X
Filaree	( <i>Erodium spp.</i> )		X





Goldenrod	( <i>Solidago spp.</i> )	1	
Goosegrass	( <i>Elysiine indica</i> )	2	
Ground Ivy	( <i>Glechema hederacea</i> )	1	
Henbit	( <i>Lamium amplexicaule</i> )		X
Knotweed, prostrate	( <i>Polygonum aviculare</i> )		X
Kochia	( <i>Kochia scoparia</i> )	1	
Lambsquarters, common	( <i>Chenopodium album</i> )		X
Lawn burweed	( <i>Soliva pterospema</i> )		X
Lespedeza, common	( <i>Lespedeza striata</i> )		X
Mallow, common	( <i>Malva neglecta</i> )		X
Nutsedge, Yellow	( <i>Cyperus esculentus</i> )	C	
Parsley piert	( <i>Alchemilla arvensis</i> )	1	
Pigweed, Redroot	( <i>Amaranthus retroflexus</i> )	1	
Pigweed, Tumble	( <i>Amaranthus albus</i> )	1	
Pineapple weed	( <i>Matricaria matricarioides</i> )		X
Plantain, buckhorn	( <i>Plantago lanceolata</i> )	1	
Puncture weed	( <i>Tribulus terrestris</i> )		X
Purslane, common	( <i>Portulaca oleracea</i> )		X
Pusley, Florida	( <i>Richardia scabra</i> )	1	
Redweed	( <i>Melochia corchorifolia</i> )		X
Rocket, London	( <i>Sisymbrium irio</i> )		X
Smartweed, Pennsylvania	( <i>Polygonum pennsylvanicum</i> )	1	
Sorrel, Red	( <i>Rumex acetosella</i> )		X
Spædwell	( <i>Veronica spp.</i> )	1	
Spurge, (annuals)	( <i>Euphorbia spp.</i> )	1	
Spurge, prostrate	( <i>Euphorbia humistrata</i> )	1	
Spurge, spotted	( <i>Euphorbia maculata</i> )	1	
Star of Bethlehem	( <i>Ornithogalum umbellatum</i> )	1	
Velvetleaf	( <i>Abutilon theophrasti</i> )		X
Violet, wild	( <i>Viola pratincola</i> )		X
Wild garlic	( <i>Allium vineale</i> )		X
Wild onion	( <i>Allium canadense</i> )		X
Woodsorrel, creeping	( <i>Oxalis corniculata</i> )		X
Woodsorrel, yellow	( <i>Oxalis stricta</i> )	1	

**Conditions of Sale and Limitation of Warranty and Liability:**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and to the extent consistent with applicable law, buyer assumes the risk of any such use.**

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

**FMC – Trademark of FMC Corporation**

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