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Printed: 10:57:25 Friday, 25 Jun, 1999 # 56 / 3507

Systems Integration Group, Inc.

P.M. 25

7969-152

6/4/99

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

7969-152

Date of Issuance:

JUN - 4 1999

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Paramount BW Herbicide

Name and Address of Registrant (include ZIP Code):

BASF Corporation
Agricultural Products
P.O. Box 13528
Research Triangle Park, NC 27709-3528

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 section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No.7969-152" before you release the product for shipment.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of this product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. V K G

Signature of Approving Official:

Date:

6.4-99

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BASF

4/28/99 NVA 98-4-82-0165

ACCEPTED
 JUN - 4 1999

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. 7469-152

Paramount® BW

herbicide

Active Ingredients:	
3,7-Dichloro-8-quinolinecarboxylic acid	15.0%
2,4-Dichlorophenoxyacetic acid	60.0%
Inert Ingredients:	<u>25.0%</u>
Total	100.0%

EPA Registration Number: 7969-__

KEEP OUT OF REACH OF CHILDREN.

DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

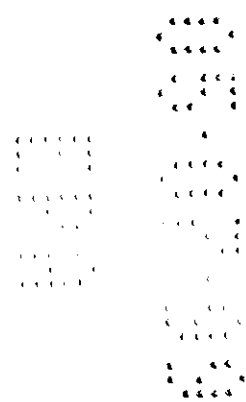
Precautionary Statements:

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled, or absorbed through the skin. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes or on clothing. Prolonged exposure or frequently repeated skin contact may cause allergic reactions in some individuals.

See inside booklet for complete **Precautionary Statements, Statements of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.**

Net contents: 6.64 pounds (8 PVA bags) (3.0 kilograms)



In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC 800-424-9300
BASF Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP)

III. General Information

Paramount® BW herbicide is a dry flowable product in water-soluble packaging intended for postemergence control of field bindweed (*Convolvulus arvensis* L.) and certain other broadleaf weeds in specific wheat and sorghum rotations commonly found in the Western United States. Visual symptoms of weed control with **Paramount BW** include twisting, stunting, reddening, and chlorosis followed by necrosis and death. In addition to providing excellent long-term control of field bindweed, **Paramount BW** offers control of several broadleaf weeds as listed in Table 2.

General Use Areas

See section IX. **Crop-Specific Information** for maps.

Cultivation

If tillage is a part of local post-harvest practices, allow a minimum of 30 days for field bindweed plants to regrow after tillage prior to application.

Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product, particularly if a product with the potential to injure crops was used.

IV. Application Instructions

Do not apply by air unless permitted by the Special Local Need provision (Section 24(c)) of FIFRA. Applications must be made to actively growing weeds as broadcast or spot spray applications at the rates and growth stages listed in **Tables 1 and 2**. Apply recommended rates of **Paramount BW** as follows unless instructed differently in section IX. **Crop-Specific Information**.

Apply **Paramount BW** to actively growing field bindweed at least 4" long. For other broadleaf weeds, the most effective control will result from applying **Paramount BW** early, when weeds are small. Delaying application permits weeds to exceed the maximum size stated and will prevent adequate control. **Paramount BW** should be applied a minimum of 14 days before seeding of the crop to ensure crop tolerance.

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

Coverage

Weeds must be thoroughly covered with spray because foliar uptake of **Paramount BW** by the target weed is important for optimum control. Large leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

Fallow Rotations

Use rates and application timings for the various fallow

rotations are explained in section IX. **Crop-Specific Information**.

Ground Application (Broadcast)

Water Volume: Use a minimum of 10 gallons of water per broadcast acre. When weed foliage is dense, higher spray volumes may be required.

Spray Pressure: Use a maximum of 40 psi (measured at the boom, not at the pump or in the line).

Application Equipment: Use only nozzles that will produce uniform spray patterns and thorough coverage, spaced up to 20 inches apart. Select nozzles designed to produce minimal amounts of fine spray particles. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Do not use selective application equipment such as recirculating sprayers or wiper applicators. Drift reduction nozzles such as Delavan® Raindrop Drift Reduction Flat Spray Tip RF Tips, XR Tee Jet® Extended range Flat Spray Tips or other brands of comparable capabilities are recommended.

V. Additives

To achieve consistent weed control, at least one of the following additives are needed: methylated seed oil, crop oil concentrate, urea ammonium nitrate, or ammonium sulfate. **Directions For Use** of each follow. See **Table 3. Additive Rates Per Acre**. Consult your local BASF representative for recommendations for your area.

Methylated Seed Oil or Oil Concentrate

A nonphytotoxic oil concentrate (commonly referred to as crop oil concentrate) can be added to the spray tank. The oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see **Compatibility Test for Mix Components (Section VII)**.

Urea Ammonium Nitrate (UAN)

Commonly referred to as 28%, 30% or 32% nitrogen solution, UAN may be added in place of other spray additives to improve weed control.

Ammonium Sulfate (AMS)

In some areas, using a nitrogen additive improves weed control.

When AMS is used, 3 quarts of liquid AMS (8-8-0 analysis) may be substituted for 2.5 pounds of solid AMS.

Because most nitrogen solutions are mildly corrosive to galvanized, mild steel, and brass spray equipment, rinse the entire spray system with water soon after use.

Use high-quality AMS to avoid plugging spray nozzles. The AMS must be readily soluble in water and contain no insoluble materials. Local sources of high-quality,

fine, feed-grade AMS may be better than fertilizer grade. Low-quality AMS may contain material that will not readily dissolve, which could result in nozzle tip plugging. To determine AMS quality, perform a jar test adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If any undissolved sediment is observed, predissolve the AMS in water and filter before adding it to the spray tank. If the AMS is added directly to the spray tank, add slowly while agitating. Adding the mix too quickly may clog outlet lines. Be sure the AMS is completely dissolved before adding other products.

Table 3. Additive Rate Per Acre

Additive	Ground Application
Methylated Seed Oil	1.5 pints
UAN Solution	0.5-1 gallon
AMS	2.5 pounds
Oil Concentrate	2 pints

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) **Water** — For 20 gallons per acre spray volume, use 3 1/3 cups (800 ml) of water. Use only water from the intended source at the source temperature.
- 2) **Paramount® BW herbicide** — Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. For the 1.66 pound rate, use 3 1/3 teaspoons. For the 0.83 pound rate, use 1 2/3 teaspoons. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.
- 3) **Emulsifiable concentrates** when applicable (methylated seed oil or oil concentrate). Cap the jar and invert 10 cycles.
- 4) **Water-soluble products** (UAN or AMS) Cap the

- jar and invert 10 cycles.
- 5) Let the solution stand for 15 minutes.
- 6) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

Mixing Order

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) **Paramount® BW herbicide:** Determine the number of water-soluble PVA bags of **Paramount BW** to be used based on the treatment area (see **Table 1** and 2). Each **Kard-O-Gard®** paper bag contains one water-soluble PVA bag. After opening the **Kard-O-Gard®** paper bag, place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the herbicide is evenly mixed in the spray tank before continuing.
- 3) **Emulsifiable concentrates** (methylated seed oil or oil concentrate when applicable)
- 4) **Water-soluble products** (when applicable)
- 5) Remaining quantity water

Maintain constant agitation during application. See **Specific Application Information** for more details.

VII. General Tank Mixing Information

No tank mixes are specifically recommended with this product. Consult your local BASF representative or agricultural advisor for assistance.

Table 1. Application Rates and Timings for Field Bindweed

Apply **Paramount BW** to field bindweed at least 4" long. (1 bag = 0.83 pounds; 2 bags = 1.66 pounds)

Fallow Rotation	Year 1		Year 2		Year 3	
	Timing	Rate per acre	Timing	Rate per acre	Timing	Rate per acre
Winter Wheat-Fallow Winter Wheat	Post-harvest to winter wheat	1.66 pounds	Before planting winter wheat	0.83-1.66 pounds	Post-harvest to winter wheat	0.83 pounds
Winter Wheat-Grain Sorghum-Fallow	Post-harvest to winter wheat	1.66 pounds	Early post-emergence to grain sorghum	0.83 pounds	Before planting winter wheat	0.83 pounds
Spring Wheat-Fallow Spring Wheat	Post-harvest to spring wheat	1.66 pounds	Apply before first frost	0.83-1.66 pounds	Post-harvest to spring wheat	0.83 pounds
Continuous Winter Wheat	Post-harvest to winter wheat	1.66 pounds	Post-harvest to winter wheat	0.83-1.66 pounds	Post-harvest to winter wheat	0.83 pounds
Continuous Spring Wheat	Post-harvest to spring wheat	1.66 pounds	Post-harvest to spring wheat	0.83-1.66 pounds	Post-harvest to spring wheat	0.83 pounds

Table 2. Application Rates and Timings for Other Broadleaf Weeds

Apply 1 bag of **Paramount BW** (0.83 pounds) per acre to the following weeds less than 2" tall.

clover, red	garlic, wild*	onion, wild	ragweed, giant
clover, white	ironweed	pennycress, field	shepherd's purse
clover, crimson *	lambquarters, common	pigweed*	speedwell
cocklebur, common	lettuce, prickly	kochia*	sowthistle, annual
dandelion	morningglory, annual	plantains	sunflower, wild
dock, curly	mustard, wild	ragweed, common	thistle, Russian

* Even under ideal conditions, these species may only be partially controlled.

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VIII. General Restrictions and Limitations

- **Maximum seasonal use rate:** Do not apply more than a **total of 1.66 pounds** (1.245 pounds a.i.) of **Paramount® BW herbicide** per acre, per calendar year.
- **Restricted Entry Interval (REI): 48 hours.**
- Applications to field bindweed must be made before the first killing frost.
- Do not make more than one application of **Paramount BW** per acre, per calendar year.
- Do not apply postemergence to any crops other than sorghum.
- **Crop Rotation Restrictions:** In case of **crop failure**, only Spring or Winter wheat and sorghum may be immediately replanted. Do not plant any other crop other than Spring or Winter wheat or sorghum for 309 days (10 months) following application. For alfalfa, clover, flax, peas, lentils, Solanaceous crops listed below, and sugarbeets, do not replant for 24 months and conduct a bioassay prior to planting any of these crops.
- Do not apply to weeds or grasses under **stress** due to lack of moisture, herbicide injury, mechanical injury or cold temperatures, as unsatisfactory control may result.
- Do not apply to sorghum subjected to **stress** conditions such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, as crop injury may result.
- Do not apply to sorghum that shows **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Do not use **selective application equipment** such as recirculating sprayers, wiper applicators, or **shielded applicators**.
- **Rainfast period:** **Paramount BW** is rainfast 6 hours after application.
- **Wind Speed:** Do not apply **Paramount BW** when wind is blowing more than 10 mph.
- Do not apply **Paramount BW** using aerial equipment unless permitted by the Special Local Need provision Section 24(c) of FIFRA.
- Do not apply through any type of **irrigation** equipment.
- Physical incompatibility, reduced weed control, or crop injury may result from mixing **Paramount BW** with other pesticides (fungicides, herbicides, insecticides, plant growth regulator, or miticides), additives, or fertilizers not specifically recommended.

Drift:

- Do not allow **Paramount BW** to drift onto other desirable plants, especially sensitive crops belonging to the following plant families:
 1. *Solanaceae* (tomato, potato, tobacco, eggplant, peppers (*Capsicum*), among others)
 2. *Umbelliferae* (celery, parsley, carrots, among others)
 3. *Leguminosae* (alfalfa, green bean, among others)
 4. *Convolvulaceae* (sweet potato, among others)
 5. *Chenopodiaceae* (spinach, sugar beet, among others)
 6. *Malvaceae* (okra, among others)
 7. *Cucurbitaceae* (watermelon, cantaloupe, squash, pumpkin, among others)
 8. *Compositae* (lettuce, sunflowers, among others)
 9. *Linaceae* (flax)
- Do not allow spray containing **Paramount BW** to drift onto areas where tomatoes are to be planted, have been planted, or onto emerged tomatoes that were transplanted as severe injury will occur.



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IX. Crop-Specific Information

Winter Wheat-Fallow-Winter Wheat Rotation

For use only in Colorado, Idaho, Kansas, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. Field bindweed can be effectively controlled in this rotation pattern with **Paramount® BW herbicide** if applied in a three-year, planned control program.



fig. 1

Year 1: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 1.66 pounds of product per acre in **Year 1**.

Year 2: Apply directly to field bindweed before planting winter wheat in the Fall. If tillage is used before planting, then time applications to field bindweed to ensure active bindweed regrowth. Apply 0.83-1.66 pounds of product per acre during **Year 2**, depending on bindweed infestation level and effectiveness of earlier applications.

Year 3: Apply after winter wheat is harvested and before the first frost. Delay applications after wheat harvest long enough to allow for bindweed to actively regrow from harvest or tillage operations (generally 14 days). Apply 0.83 pound per acre of product in **Year 3**.

Winter Wheat-Grain Sorghum-Fallow Rotation

For use only in Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming. Control of field bindweed can be obtained effectively in this rotation pattern with **Paramount BW** if applied in a three-year, planned control program.



fig. 2

Year 1: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after combining or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply

1.66 pounds of product per acre in **Year 1**.

Year 2: Apply early postemergence to grain sorghum when field bindweed plants are actively growing. Grain sorghum should be in the 2-6 leaf stage at the time of application. Apply 0.83 pound of **Paramount BW** to grain sorghum during **Year 2**.

Year 3: Apply directly to field bindweed before planting winter wheat in the Fall. If tillage is used before planting, then time applications to field bindweed to ensure active bindweed regrowth. Apply 0.83 pound of **Paramount BW** per acre during **Year 3**.

Continuous Spring Wheat Rotation

For use only in Montana, North Dakota, and South Dakota. Field bindweed can be effectively controlled in this rotation pattern with **Paramount BW** if applied in a three-year, planned control program.

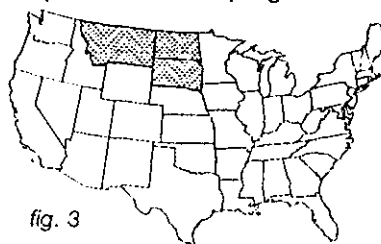


fig. 3

Year 1: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 1.66 pounds of product per acre in **Year 1**.

Year 2: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 0.83-1.66 pounds of product per acre in **Year 2**.

Year 3: Apply directly to actively growing field bindweed after Spring wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 0.83 pound of product per acre in **Year 3** in this rotation.

Spring Wheat-Fallow-Spring Wheat Rotation

For use only in Colorado, Idaho, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. Field bindweed can be effectively controlled in this rotation pattern with **Paramount® BW herbicide** if applied in a three-year, planned control program.

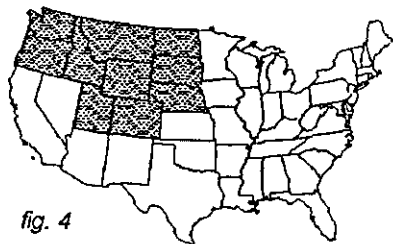


fig. 4

Year 1: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 1.66 pounds of product per acre in **Year 1**.

Year 2: Apply directly to field bindweed before the first frost. Apply to fallow ground after temperatures begin to cool in early Fall. Apply 0.83-1.66 pounds of product per acre during **Year 2**, depending on weed infestation level.

Year 3: Apply directly to actively growing field bindweed after Spring wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after harvest or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 0.83 pound of product per acre in **Year 3** in this rotation.

Continuous Winter Wheat Rotation

For use only in Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming. Field bindweed can be effectively controlled in this rotation pattern with **Paramount BW** if applied in a three-year, planned control program.



fig. 5

Year 1: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after combining or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 1.66 pounds of product per acre in **Year 1**. Apply before planting winter wheat again in the Fall of **Year 1**.

Year 2: Apply directly to actively growing field bindweed once again after winter wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after combining or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 0.83-1.66 pounds of product per acre in **Year 2**, depending on weed infestation level. Applications must be made before planting winter wheat again in the Fall of **Year 2**.

Year 3: Apply directly to actively growing field bindweed after wheat is harvested. (See **Table 2** for information on other broadleaf weeds.) Delay applications after combining or tillage for at least 14 days or until bindweed plants have begun active regrowth. Apply 0.83 pound of product per acre in **Year 3**. Applications must be made before planting winter wheat again in the Fall of **Year 3**.

Crops:
This product can be used on the following crops:
Fallow Ground Sorghum Wheat (preplant)
Look inside for complete Restrictions and Limitations and Application Instructions .

Weeds listed in this label:

Common Name	Scientific Name
Bindweed, field	<i>Convolvulus arvensis</i>
Clover, crimson	<i>Trifolium incarnatum</i>
, red	<i>Trifolium pratense</i>
, white	<i>Trifolium repens</i>
Cocklebur, common	<i>Xanthium strumarium</i>
Dandelion	<i>Taraxacum officinale</i>
Dock, curly	<i>Rumex crispus</i>
Garlic, wild	<i>Allium vineale</i>
Ironweed	<i>Veronia spp.</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</i>
, lettuce, prickly	<i>Lactuca scariola</i>
Morningglory, annual	<i>Ipomea ??</i>
Mustard, wild	<i>Sinapsis arvensis</i>
Onion, wild	<i>Allium canadense</i>
Pennycress, field	<i>Thlaspi arvense</i>
Pigweed	<i>Amaranthus spp.</i>
Plantains	<i>Plantago spp.</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
, giant	<i>Ambrosia trifida</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sowthistle, annual	<i>Sonchus spp.</i>
Speedwell	<i>Veronica officianlis</i>
Sunflower, Wild	<i>Heliathus annuus</i>
Thistle, Russian	<i>Salsola iberica</i>

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASF Corporation
P.O. Box 13523
Research Triangle Park, NC 27709

