

1 264-632

03/12/2009

1/12



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

MAR 12 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Nang-Ly Chow
Bayer CropScience
P.O. Box 12014
2 T.W. Alexander Dr.
Research Triangle Park, NC 27709

3-12-09

Subject: Phenmedipham RED Label Amendment
Betamix Progress (Alternate Brand Name: Progress Herbicide)
EPA Reg. No. 264-632

Dear Ms. Chow:

The label referred to above is in compliance with the Phenmedipham RED and is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following changes to the product labeling:
 - a. Add the following statement in a prominent place on the front panel:
"For sale and use by professional applicators only. Not for sale or use by homeowners/consumers."
 - b. Revise the heading from "Inert Ingredients" to "Other Ingredients".
 - c. Revise the "If in Eyes" First Aid statement "Get medical attention if irritation develops or persists" to read "Call a poison control center or doctor for treatment advice." The "If on Skin or Clothing" statement is optional and may be removed from the label.
 - d. It is recommended that additional text be added to the Note to Physician that addresses eye irritation concerns. The following statements are some suggested types of information that could be included, if applicable:
 - technical information on symptomatology;
 - use of supportive treatments to maintain life functions;

- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice.
- e. Revise the Hazards to Humans and Domestic Animals text to read “DANGER Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing.” The texts “Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.” are optional and may be removed from the label.
- f. Revise the heading to read “PERSONAL PROTECTIVE EQUIPMENT (PPE)”.
- g. Remove the phrase “for mixers and loaders” from “Chemical-resistant gloves”.
- h. Add the text “See engineering controls for additional requirements.” directly below the list of PPE materials.
- i. The Physical and Chemical Hazards statement is optional and may be removed.
- j. Revise the Container Disposal statements as outlined in PR Notice 2007-4.
- k. Revise the restricted entry interval (REI) from “12 hours” to “24 hours”.
- l. Revise the heading from “Practices to Lower the Potential for Spray Drift” to “Spray Drift Management”.
- m. Revise the phrase from “the following buffer zones should be observed” to “the following buffer zones **must** be observed”.
- n. Revise the Spray Drift “1.” statement to read “The boom length must not exceed 70% of the wingspan or 85% of the rotor blade diameter.”
- o. Remove the text “The applicator should be familiar with, and take into account, the information covered in *Aerial Drift Reduction Advisory Information*.” and the subsequent heading “Aerial Drift Reduction Advisory Information”.
- p. Revise the text on page 4 to read “The pesticide **must** be applied when the potential for drift to adjacent sensitive areas...”
- q. Revise the precautionary statement to read “DO NOT OVERTREAT: The use of higher than **directed** rates may cause beet injury.”

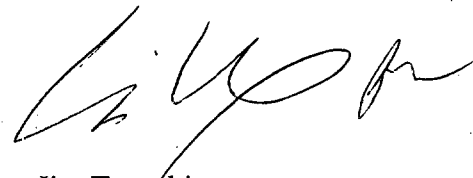
3/12

Page 3
EPA Reg. No. 264-632

Please Note: Final product reregistration cannot be considered until after all active ingredients in this product are eligible for reregistration.

A stamped copy of your labeling is enclosed for your records. Submit one (1) copy of the revised final printed label for the record 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 the product constitutes acceptance of these conditions

Sincerely,



Jim Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

4/12

Progress® HERBICIDE

FOR AGRICULTURAL USE ONLY

Postemergence Herbicide for Control of Weeds in Sugar Beets

ACTIVE INGREDIENT:

Phenmedipham*	7.0%
Desmedipham**	7.0%
Ethofumesate***	7.0%

INERT INGREDIENTS: 79.0%

Contains 1.8 lbs. active ingredient per gallon. **TOTAL 100.0%**

This product contains the toxic inert ingredient isophorone.

*CAS Number: 13684-63-4

** CAS Number: 13684-56-5

*** CAS Number: 26225-79-6

EPA Reg No. 264-632

EPA Est. No. 070989-IA-001

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.)

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

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. • Get medical attention if irritation develops or persists.
If swallowed	<ul style="list-style-type: none"> • Call a Poison Control Center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the Poison Control Center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. Call 1-800-334-7577 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS.

S/12

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are barrier laminate or butyl rubber ≥ 14 mils. If you want more options, follow the instructions for Category B on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes and socks, and
- Chemical-resistant gloves for mixers and loaders,
- Protective eyewear

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

ENGINEERING CONTROLS STATEMENT

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. . Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame. Protect PROGRESS® Herbicide from freezing temperatures.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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.

WHEN PACKAGED IN PLASTIC CONTAINERS:

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

DO NOT REUSE THIS CONTAINER, DESTROY WHEN EMPTY.

WHEN PACKAGED IN SVR CONTAINERS:

ECHO SYSTEM® SVR Return Procedure: Return the ECHO SYSTEM SVR container clean (outside only) and empty to the place of business from which the PROGRESS® was purchased.

This ECHO SYSTEM SVR container is the sole property of Bayer CropScience.

DIRECTIONS FOR USE

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

Read the entire Directions for Use before using this product.

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.

6/12

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.

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; wear coveralls, shoes plus socks, protective eyewear, and chemical-resistant gloves made of any waterproof material.

PRACTICES TO LOWER THE POTENTIAL FOR SPRAY DRIFT

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. In order to avoid phytotoxic spray drift to nontarget crops during application of PROGRESS® Herbicide, the following buffer zones should be observed:

- Cotton, Potatoes, Sunflowers, Sorghum, Wheat50 feet
- Blackeye Beans, Cabbage, Flax 100 feet
- Lettuce, Canola, Tomatoes300 feet

DO NOT APPLY WHEN WIND SPEED IS OVER 10 MILES PER HOUR. AVOID APPLICATIONS WHEN CONDITIONS FAVOR DRIFT.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed the length of the wingspan or rotor.
2. Nozzles must always point backward, parallel with the air stream, and never be pointed downward more than 45 degrees.

Where States or Tribes have more stringent regulations, they should be observed.

The applicator should be familiar with, and take into account, the information covered in "Aerial Drift Reduction Advisory Information."

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

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.

BOOM LENGTH

- The boom length must not exceed 70% of the wingspan or 85% of the rotor blade diameter.

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 downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement at the downwind edge of the application area 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 windspeeds of 2 to 10 m.p.h.. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 m.p.h. 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

- Do not make any type of application into temperature inversions. 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 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 the 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.

The pesticide should 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 sensitive areas).

GENERAL INFORMATION

When used as directed, PROGRESS® Herbicide is selective against weeds in sugar beets. For best results, spray weeds in the cotyledon stage which are actively growing and are not under water or heat stress.

PROGRESS® broadens and enhances the control of troublesome weeds, including the following:

- Annual bluegrass..... *Poa annua*
- Annual sowthistle *Sonchus oleraceus*
- Black nightshade *Solanum nigrum*
- Hairy nightshade *Solanum sarrachoides*
- Canarygrass *Phalaris canariensis*
- Coast fiddleneck..... *Amsinckia intermedia*
- Common chickweed *Stellaria media*
- Common lambsquarters *Chenopodium album*
- Common ragweed *Ambrosia artemisiifolia*
- Green foxtail *Setaria viridis*
- Groundcherry *Physalis lanceifolia*
- Kochia *Kochia scoparia*
- Ladysthumb *Polygonum persicaria*
- London rocket..... *Sisymbrium irio*
- Nettleleaf goosefoot *Chenopodium murale*
- Pennsylvania smartweed..... *Polygonum pennsylvanicum*
- Prostrate pigweed* *Amaranthus gracizans*
- Purslane *Portulaca oleraceus*
- Redroot pigweed* *Amaranthus retroflexus*
- Shepherdspurse *Capsella bursa-pastoris*
- Yellow foxtail (Pigeongrass) *Setaria glauca*
- Wild buckwheat *Polygonum convolvulus*
- Wild mustard *Brassica kaber*

*Redroot pigweed and prostrate pigweed control will be improved with a tank mix of PROGRESS® and BETANEX® Herbicide in Eastern North Dakota and Minnesota (see Chart 3).

8/12

GENERAL PRECAUTIONS AND RESTRICTIONS

DO NOT APPLY PROGRESS® HERBICIDE TO SUGAR BEETS WITHIN 75 DAYS OF HARVEST.

DO NOT EXCEED A TOTAL OF 8.7 PINTS PROGRESS® PER ACRE PER SEASON.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

DO NOT ROTATE WITH CEREAL GRAIN CROPS FOR 120 DAYS FOLLOWING POSTEMERGENCE APPLICATION WITH PROGRESS®.

PROGRESS® MAY CAUSE BEET INJURY IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

- Rapid climatic changes from cool, overcast days, to hot (80°F or over) bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the late afternoon or evening when the temperature is decreasing.
- Frost within 3 days prior to application or 7 days following treatment could cause beet injury.
- Windy conditions or drought.
- Use of a preplant or preemergence herbicide or other chemicals.
- Insect or disease injury.
- Close cultivation.

If stress conditions are present, delay application in order to give plants a chance to recover.

IMPORTANT: PROGRESS® Herbicide may cause temporary growth retardation and/or chlorosis or tipburn on sugar beets. Sugar beets usually resume normal growth within 10 days.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed kill.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

MIXING THE SPRAY

Make sure the Sprayer is CLEAN.

PROGRESS® Herbicide contains sufficient wetting agents for optimum coverage. Add sufficient water to fill the lines. Then add the desired amount of PROGRESS® and the remaining quantity of water with the bypass agitator running. Bypass agitation is sufficient. Mechanical agitation is not necessary. Only use freshly prepared spray emulsions.

Always spray immediately after preparing the spray solution. Prepare only enough spray solution to last less than four hours.

RATE OF APPLICATION

MULTIPLE (LOW RATE) APPLICATIONS

Multiple (low rate) applications of PROGRESS® Herbicide may be applied by air or ground to sugar beets to control early germinating weeds. The first application must be applied when the earliest emerging weeds have reached cotyledon size. See Chart 1 for broadcast rates. For broadcast applications with ground equipment, apply in 10 to 20 gallons of water per acre. Use 5 to 15 gallons of water per acre with aerial application. See Chart 2 for equivalent band rates. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 days after the preceding application or when another flush of weeds germinates. If the second application is delayed, conventional treatment as described below will be necessary.

To avoid excessive phytotoxicity to fall-planted sugar beets south of the Tehachapi Mountains in California when temperatures are above 85°F, apply PROGRESS® at the rate of 0.75 pint per acre (broadcast equivalent). Evening applications are recommended.

For further information, contact your County Agricultural Agent, Farm Advisor or Bayer CropScience.

9/12

CHART 1
DOSAGE CHART FOR BROADCAST APPLICATION
(Air and Ground Applications)

Weed Stage*	Pints/Acre Broadcast PROGRESS®
Cotyledon	1.13–1.50
2 leaf	1.33–2.25
4 leaf	1.50–3.25

*Applications should begin at the cotyledon stage of the weeds.

*Higher dosage rates could be required, depending on the advancement of the weed stage.

*Do not exceed 1.5 pt./acre when sugarbeets are at the cotyledon stage.

*Early two true-leaf sugar beets tend to be the most susceptible to phytotoxicity.

CHART 2
DOSAGE CHART FOR BAND APPLICATION

Broadcast Equivalent	Band Width	Row Spacing Band Rate (fluid ounces)			
		22"	24"	28"	30"
1.13 pints/acre	5"	4.1	3.8	3.2	3.0
	7"	5.7	5.3	4.5	4.2
1.25 pints/acre	5"	4.5	4.2	3.6	3.3
	7"	6.4	5.8	5.0	4.7
1.33 pints/acre	5"	4.8	4.4	3.8	3.6
	7"	6.8	6.2	5.3	5.0
1.50 pints/acre	5"	5.4	5.0	4.3	4.0
	7"	7.6	7.0	6.0	5.6
1.75 pints/acre	5"	6.4	5.8	5.0	4.7
	7"	8.9	8.2	7.0	6.5
2.25 pints/acre	5"	8.2	7.5	6.4	6.0
	7"	11.4	10.5	9.0	8.4
3.25 pints/acre	5"	11.8	10.8	9.3	8.7
	7"	16.5	15.2	13.0	12.1
5.0 pints/acre	5"	18.2	16.7	14.3	13.3
	7"	25.5	23.3	20.0	18.7

CONVENTIONAL APPLICATIONS

By Ground: Apply PROGRESS® Herbicide at the rate of 3.25 to 5.0 pints in 20 to 50 gallons water broadcast basis. For band application, see Chart 2.

By Air: Apply PROGRESS® Herbicide at the rate of 3.25 to 5.0 pints per acre using 5 to 15 gallons of spray per acre.

Apply the 3.25 to 5.0 pint rates only to sugar beets past the two true-leaf stage. Use the 5.0 pint rate only on well established sugar beets which are not under stress. The stage of growth of the weeds is very important for satisfactory control. For best results, spray when the weeds are at the two true-leaf stage or smaller, are actively growing and are not under water or heat stress.

REPEAT APPLICATION OF PROGRESS®: For control of later germinating weeds, make a second application of PROGRESS® Herbicide. Use 3.25 to 5.0 pints of PROGRESS®. Allow at least 7 days between first and second applications. Apply when sugar beets have at least 4 leaves. For best results, use the higher rate and spray when weeds are at the two true-leaf stage. Apply lower rates when the sugar beets are under stress as explained in the *General Precautions and Restrictions* section.

TANK MIX COMBINATIONS

When tank mixing, read and follow the label for each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosage should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

10/12

PROGRESS® Herbicide can be tank mixed with the following broadleaf herbicides for improved broadleaf weed control if application timing is correct for the tank mix products.

Herbicide	Use Rate (pt./A)
Stinger®*	0.25–0.50
BETANEX	See Chart 3

*The PROGRESS® + Stinger tank mix should be applied when sugar beets are in the two true-leaf stage or larger.

CHART 3
DOSAGE CHART FOR TANK MIXES OF PROGRESS® AND BETANEX

Equivalent PROGRESS® Desired Rate (Pints/acre Broadcast)	PROGRESS® + BETANEX® (Pints/acre Broadcast)
1.13	0.57 + 0.78
1.25	0.63 + 0.88
1.33	0.67 + 0.92
1.50	0.75 + 1.00
1.75	0.88 + 1.20
2.25	1.13 + 1.60
3.25	1.63 + 2.25
5.0	2.50 + 3.50

MICRO-RATE APPLICATIONS (EXCEPT CALIFORNIA)

Multiple Micro-rate applications of Progress® Herbicide in tank mixtures with reduced rates of UpBeet™, Stinger®, and modified seed oils may be applied by air or ground equipment to sugar beets to control early germinating weeds.

Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control.

DOSAGE CHART 4
DOSAGE CHART FOR MULTIPLE MICRO-RATE BROADCAST APPLICATIONS

Sugar Beet Stage	Progress® Fluid Ounces/Acre Broadcast
Cotyledon to 4-leaf	5.7 (equivalent to 0.08 lb. ai/A)
4-Leaf*	5.7 – 8.7 (equivalent to 0.08 – 0.12 lb. ai/A)

* Rate can be increased when the smallest sugar beet plants in the field are in the 4-true leaf stage or larger.

Application of Progress® Herbicide in broadcast applications is strongly recommended. If band applications are used, do not use less than 11-inch bands.

For broadcast applications of Progress® with selected tank mix partners, apply in 10 to 20 gallons of water per acre for ground application, or 5 to 15 gallons of water per acre for aerial application. Use the minimum rate recommended on the tank mix partner label, or a reduced rate of the tank mix partner(s), at the discretion of the grower or applicator, as permitted under FIFRA. [Minimum label rate for UpBeet is 0.5 oz/acre; for Stinger, 4.0 fl oz/acre.]

Use modified seed oils at a finished spray concentration of 1.5% v/v or a minimum of 1 pt/acre. A minimum of three sequential applications should be used. Accurate timing is essential; make initial application immediately after weeds emerge, and make repeat applications on 5- to 7-day intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to multiple (low rate) applications.

Progress® Herbicide can be mixed with UpBeet, Stinger, and modified seed oils for use on sugar beets in accordance with the most restrictive label limitations and precautions. No label dosage rates should be exceeded. Progress® Herbicide cannot be mixed with any product containing a label prohibition against such mixing.

Fungicides or insecticides can be tank mixed with Progress® plus UpBeet plus Stinger plus methylated seed oils, however, do not combine both fungicides and insecticides with micro-rate mixtures.

11/12

MIXING INSTRUCTIONS FOR MICRO-RATE MULTIPLE APPLICATIONS OF PROGRESS®

1. Start with a clean spray tank.
2. Fill spray tank with one-third of the total amount of clean water needed for application and start gentle agitation.
3. Slurry UpBeet in water before adding to spray tank, then add slurried UpBeet to spray tank.
4. Fill spray tank to two-thirds of the total amount of clean water needed for the application.
5. Add Progress® followed by Stinger, then modified seed oil.
6. Add remaining amount of water while continuing gentle agitation. Spray immediately. Spray mixture should not remain in spray tank overnight.

USE PRECAUTIONS FOR MICRO-RATE APPLICATIONS

Not all weeds will be adequately controlled, even with favorable climatic conditions. Micro-rate applications of Progress® mixed with UpBeet and Stinger will not control ALS-resistant kochia. Multiple low rates of Progress® and/or hand labor may be required if multiple micro-rate applications do not adequately control weeds.

Multiple micro-rate applications may injure sugar beets if climatic conditions rapidly change from cool, wet, overcast days to bright sunny days. Plugging of spray nozzles may be encountered due to the potential formation of a precipitate in the spray solution that is often associated with micro-rate applications. To minimize potential formation of precipitate, start with a clean spray system, use warm spray water for mixing, completely empty spray solution from each tank load, flush tank and lines between loads with fresh water, never leave diluted spray solution in tank overnight, and/or add ammonia (2% household) at 1% v/v or a basic blend additive (as referenced in the most recent North Dakota State University Weed Control Guide) at 1% v/v. DO NOT apply micro-rate treatments when conditions are favorable for drift to nontarget species.

12/12

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the 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 the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE BY LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE BY LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE BY LAW, TO THE EXTENT ALLOWED BY LAW, 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 BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENTS: 2.5 GALLONS

Progress[®], Betanex[®] and Echo System[®] are registered trademarks of Bayer.
Stinger[®] is a registered trademark of DowElanco.

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR 12 2009

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

264-632



Bayer CropScience LP
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709
1-866-99BAYER (1-866-992-2937)
<http://www.bayercropscienceus.com>

Progress Herbicide (PENDING) EPA 8 Month PDCI 10/19/07