

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

OCT 27 2003

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

BASF Corporation
ATTN: Craig Kleppe
P.O. Box 13528
Research Triangle Park, NC 27709

Dear Mr. Kleppe:

Subject: Fast Track Amendments for Atrazine Product
Product: G-Max Lite Herbicide
EPA Registration Number: 7969-200
Submission Date: 10/14/03

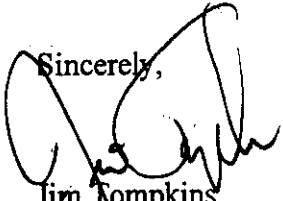
The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. Under the Ingredient statement, change "contains petroleum distillate's" to "contains petroleum distillates."
2. In the Precautionary Statements section, add a blank line between the "Mixers, loaders...using Engineering Controls must wear:...Shoes plus Socks" and "Discard clothing..."
3. In the Environmental Hazards section, add "Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water" to the end of the paragraph that begins, "G-Max Lite herbicide contains the active ingredient atrazine."
4. Add to the Directions for Use the following information:
 - "Do not apply this product through any type of irrigation system."
 - "When tank-mixing or sequentially applying products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs a.i./acre) must not exceed the specific seasonal rate limits from pre-emergence, post-emergence, or pre- + post-emergence applications as noted in the use limitation table in the use directions."
5. In the Crop-Specific Information section under "Corn," change the PHI for field corn from 40 days to 60 days.
6. Under Conditions of Sale and Warranty, specify what manner of use or application, weather, crop condition, presence of other materials or use of this product in a manner inconsistent with the label will cause crop injury, ineffectiveness, or other unintended consequences. Currently this Conditions of Sale and Warranty statement is inappropriate for this product.
7. In the Ground Application (Dry Bulk Fertilizer) section, add "Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. No more than 500 tons of dry bulk fertilizer can be impregnated per day. No single facility may impregnate fertilization with this product for more than 30 days per calendar year." Also in this section remove the reference to "on-board impregnation system."

2 8 14

Submit three (3) copies of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted labels. A stamped copy of labeling is enclosed for your records.

Sincerely,



Jim Tompkins
Product Manager, Team 25
Herbicide Branch
Registration Division (7505C)

Enclosure

3 7 14

RESTRICTED USE PESTICIDE
DUE TO GROUND AND SURFACE WATER CONCERNS

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

BASF

G-Max Lite™

herbicide

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 27 2003

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

7969-200

For use in corn (field, pop, seed, and sweet) and sorghum (grain)

Active Ingredients:

Dimethenamid-P* (S)-(2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-(2,4-dimethyl-thien-3-yl)-acetamide).....	24.1%
Atrazine* (2-chloro-4-ethylamino-6-isopropyl-amino-s-triazine).....	29.5%
Inert Ingredients:**	46.4%
Total	100.0%

* contains 2.25 pounds of dimethenamid-P and 2.75 pounds of (atrazine) per gallon
 ** contains petroleum distillate's

EPA Reg. Number: 7969-200

EPA Est. Number:

KEEP OUT OF REACH OF CHILDREN.
WARNING/AVISO

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.)

See inside labeling for complete **Precautionary Statements, First Aid, Directions For Use, and Conditions of Sale and Warranty.**

Product of U.S.A.

Net contents:

Shake before using.

BASF Corporation
 26 Davis Drive
 Research Triangle Park, NC 27709

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 first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • 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.
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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	
Note to Physician: Contains Petroleum Distillate - vomiting may cause aspiration pneumonia	

Precautionary Statements

Hazards to Humans and Domestic Animals
WARNING: Harmful if swallowed or absorbed through the skin. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE)
 Some materials that are chemical resistant to this product are listed below. For more options, refer to category C on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators and other handlers not using Engineering Controls must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear (if overhead exposure)
- A NIOSH approved dust-mist filtering respirator with a TC84 cartridge
- Chemical-resistant apron (if exposed to undiluted product)
- Protective eyewear

Mixers, loaders, applicators and other handlers using Engineering Controls must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves and apron, (mixers and loaders only)
- Shoes plus socks

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

Engineering Controls Statements

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d) (4)].

Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d) (5)] for dermal protection. In addition, such applicators and flaggers must:

Wear long-sleeved shirt & long pants, chemical resistant gloves category C and shoes plus socks; either wear a NIOSH approved dust-mist filtering respirator with a TC 84 cartridge or use an enclosed cab that provides inhalation protection equivalent to a dust mist respirator. Be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical-resistant gloves, chemical-resistant footwear, and chemical-resistant headgear, if overhead exposure and a dust mist respirator if using an enclosed cab that provides inhalation protection. Take off any PPE that was worn in the treated area before re-entering cab, and store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

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.
- 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

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Atrazine is toxic to aquatic invertebrates. 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 disposing of equipment washwaters or rinsate.

Ground and Surface Water Advisory

Dimethenamid-P has properties that may result in groundwater contamination. Application in areas where soils are permeable or coarse and groundwater is near the surface could result in groundwater contamination. Following application and during rainfall events that cause run-off, this chemical may reach surface water bodies including streams, rivers, and reservoirs.

G-Max Lite™ herbicide contains the active ingredient atrazine. Atrazine can leach through soil and has been found to result in contamination of water supplies by way of ground water. Therefore, growers are advised to avoid use of **G-Max Lite** in well-drained loamy sand to sand soils, particularly in areas having high groundwater tables.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

- This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.
- This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes, and reservoirs.
- This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs.
- If this product is applied to highly erodible land, the 66-foot buffer or set-back from runoff points must be planted to crop or seeded with grass or other suitable crop.

Care must be taken when using this product to prevent 1) back-siphoning into wells, 2) spills, or 3) improper disposal of excess pesticide, spray mixes, or rinsates.

Check valves or anti-siphoning devices must be used on all mixing equipment to prevent back-siphoning into wells or bulk storage tanks. Refer to **Storage and Disposal** regarding proper disposal of excess pesticide, spray mixes, and rinsates.

Tile-Outletted Fields Containing Standpipes

To ensure protection of surface water from run-off through standpipes and tile outlets in terraced fields, one of the following options may be used:

- Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3" in the entire tile-outletted terraced field.
- Apply this product to the entire tile-outletted field under a no-till practice only when high crop

residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

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**.

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, butyl rubber, nitrile rubber, neoprene rubber, PVC, or viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear

Storage and Disposal

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

Pesticide Storage: Do not use or store near heat or open flame. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides. Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Pesticide Disposal: Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

- **Plastic or Metal Containers:** Triple rinse (or equivalent) and add rinsate to spray tank. 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. If burned, stay out of smoke.
- **Bulk/Mini-bulk Containers:** Return empty container to point of purchase for repackaging and recycling.

In Case of Spill

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

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

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

I. General Information

G-Max Lite™ herbicide is a selective pre-emergence herbicide for controlling most annual grasses, many annual broadleaf weeds, and sedges in field corn, seed corn, sweet corn, popcorn and grain sorghum (refer to **Table 1. Weeds Controlled**).

Table 1. Weeds Controlled

Some weed species may have triazine-resistant biotypes that will not be controlled adequately by this product. If resistant biotypes are suspected, use an alternate program, or use non-triazine products such as **Clarity®** or **Prowl® herbicide** in combination with **G-Max Lite™** or use **Distinct®** sequentially.

Table 1. Weeds Controlled

Annual Grasses	Annual Broadleaves
Barnyardgrass	Amaranth, palmer
Crabgrass, large	Buckwheat, wild
, smooth	Chamomile, mayweed
Cupgrass, southwestern	Carpetweed
, woolly ¹	Cocklebur ¹
Foxtail, giant	Eclipta ¹
, green	Galinsoga
, yellow	Jimsonweed ¹
Goosegrass	Kochia
Johnsongrass (seedling) ¹	Lambsquarters, common
Millet, wild proso ¹	Morningglory, annual ¹
Oats, wild	Mustards
Panicum, fall	Nightshade ² , black
, Texas ¹	, eastern black
Red Rice	, hairy
Sandbur ¹	Pigweed, prostrate
Shattercane ¹	, redroot
Signalgrass, broadleaf ¹	, smooth
Witchgrass	, tumble
Sedge	Purslane, common
Flatsedge, rice	Pusley, Florida
Nutsedge, yellow ²	Ragweed, common
	, giant ¹
	Smartweed
	Spurge, nodding
	, spotted
	Velvetleaf ¹
	Waterhemp, common
	, tall

¹ partial control or suppression. To complement control, **G-Max Lite** should be used in tank mixes or sequential applications with other herbicides that provide additional control of these weed species.

² For best control of these species, use the highest rate recommended by soil type. If dry conditions exist near application or excessive rainfall occurs early in season, a postemergence herbicide or cultivation may be required to help control these weeds.

Mode of Action

G-Max Lite contains two active ingredients: dimethenamid-P, as an inhibitor of cell division, Group 15, and atrazine, an inhibitor of photosynthesis at photo system II Site A, Group 5. **G-Max Lite** typically controls weeds before or soon after they emerge from the soil.

Herbicide Resistance

Naturally occurring biotypes of certain pests with resistance to the atrazine component in **G-Max Lite** are known to exist. Selection of resistant biotypes, through repeated use of atrazine or related triazine herbicides (same mode of action), may result in reduced levels of control. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. In such a case, additional treatments with this herbicide or related products is not recommended. Consult your local representative or agricultural advisor for assistance.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

II. Application Instructions

G-Max Lite™ herbicide may be applied preplant surface, preplant incorporated, preemergence or early postemergence to corn or sorghum. **G-Max Lite** will provide most effective weed control when applied (by ground or aerial equipment), and subsequently incorporated into soil by rainfall, sprinkler irrigation, or mechanical tillage prior to weed seedling emergence from soil. **G-Max Lite** may be applied using either water or fluid fertilizer as the spray carrier, or impregnated onto and applied with dry bulk fertilizer. Sprayable fluid fertilizer as a carrier is not recommended for use after crop emergence unless the typical fertilizer burn symptoms on the crop are acceptable. Refer to section **III. Additives** for more information.

Application Rate

Recommended use rates for **G-Max Lite** when used alone, in tank mix, or sequential applications are given in **Table 2** (refer to section **IV. General Tank Mixing Information** and section **VI. Crop-Specific Information** for more details). Use rates of this product vary by soil texture and organic matter. Soil texture groupings used in this label are coarse (sand, loamy sand, sandy loam), medium (silt, silt loam, loam, sandy clay loam), and fine (sandy clay, silty clay, silty clay loam, clay loam, and clay). When use rates are expressed in ranges, use the lower rates for more coarsely textured soils lower in organic matter and use the higher rates for more finely textured soils that are higher in organic matter. Reduced rates may be used where partial control or reduced length of soil residual control is required (refer to **Table 2**).

Table 2. G-Max Lite™ Herbicide Application Rates Per Acre¹		
As Determined By Soil Texture and Organic Matter Content		
Soil Texture	Organic Matter Content	
	Less than 3%	3% or more²
Coarse	2.0 - 2.5 pints	2.5 - 3.0 pints
Medium or Fine	2.5 - 3.0 pints	3.0 - 3.5 pints

NOTE: To assist in determining product use rates of **G-Max Lite** when it is important to manage application rates of atrazine active ingredient (a.i.), refer to the following quick calculation guide:

- 2.0 pints of **G-Max Lite** delivers 0.7 lbs. a.i./a of atrazine
- 2.5 pints of **G-Max Lite** delivers 0.85 lbs. a.i./a of atrazine
- 3.0 pints of **G-Max Lite** delivers 1.0 lbs. a.i./a of atrazine
- 3.5 pints of **G-Max Lite** delivers 1.2 lbs. a.i./a of atrazine

¹For all early preplant applications, use 3.5 pints of **G-Max Lite** per acre.
²On all soils with 8-20% organic matter, use 3.5 pints of **G-Max Lite** per acre. **G-Max Lite** is not recommended for use on soils with more than 20% organic matter.

Application Timing

Preplant Surface Applications: For use in minimum tillage or no-tillage production systems, apply **G-Max Lite™ herbicide** alone or in tank mixes up to 45 days before planting. When making early preplant applications (15-45 days prior to planting), use 3.5 pints of **G-Max Lite** on all soil types. Early preplant applications are not recommended for use on coarse-textured soils or in areas where average annual rainfall (or rainfall + irrigation) typically exceeds 40". Early preplant applications may be applied as part of a split application program where the second application is made after planting (use 2/3 of **G-Max Lite** rate early followed by 1/3 of rate after planting). A split application is recommended when the initial application is made more than 30 days prior to planting. Tank mixes with postemergence herbicides such as **Clarity®**, **Gramoxone® Extra**, **Roundup Ultra®**, or **Touchdown®** must be used when weeds are more than 1.5" tall at the time of application.

Preplant Incorporated Applications: Apply **G-Max Lite** and incorporate into the upper (1-2") soil surface up to 2 weeks before planting. Use a harrow, rolling cultivator, finishing disk, or other implement capable of giving uniform shallow incorporation. Avoid deeper incorporation or reduced weed control may result.

Pre-emergence Surface Applications: Broadcast treatment uniformly to the soil surface after planting and before crop emergence. Rainfall, sprinkler irrigation, or shallow mechanical incorporation after application is required to move this product into the upper soil surface where weed seeds germinate. If adequate rainfall or irrigation does not occur and weed seedling emergence begins, a shallow cultivation or rotary hoeing will improve performance.

Early Postemergence Applications: **G-Max Lite** may be applied early postemergence to corn or sorghum up to 12" tall. Apply **G-Max Lite** before broadleaf weeds are greater than 1.5" tall and before grass weeds emerge. If grass and/or broadleaf weeds exceed those growth states, **G-Max Lite** should be used in tank mix with products that control those emerged weeds.

Split Applications: **G-Max Lite** may be used in split application programs where applications are made as part of the methods described above. If applications are less than 2 weeks apart, the total **G-Max Lite** rate used must not exceed the maximum rate given for each specific soil type. If applications are 2 weeks or more apart, a total **G-Max Lite** use rate of up to 3.5 pints per acre per year may be used on any soil type.

Managing Off-target Movement

Spray Drift:

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction 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.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. Do not apply when the following

conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

INFORMATION ON DROPLET SIZE

The best drift management strategy and most effective way to reduce drift potential are to apply large 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 recommended practice. Significant deflection from the 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. Do not use nozzles producing a mist droplet spray.

APPLICATION HEIGHT

Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical 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 by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

Applications should not occur during temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which 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 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.

WIND EROSION

Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment

Water Volume: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to nontarget areas.

Managing spray drift from aerial applications:

Applicators must follow these requirements to avoid off-target drift movement: 1) boom length - the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation - nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height - without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Banding)

When applying **G-Max Lite™ herbicide** by banding, determine the amount of herbicide and water volume needed using the following formula:

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Banding herbicide rate per acre}$$

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast volume per acre} = \text{Banding water volume per acre}$$

Ground Application Methods and Equipment (Broadcast)

Water Volume: Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to nontarget areas.

Application Equipment: Use nozzle screens no finer than 50 mesh.

Ground Application (Dry Bulk Fertilizer)

G-Max Lite may be impregnated or coated onto dry bulk granular fertilizer carriers for preplant surface, preplant incorporated, or pre-emergence applications. Impregnation or coating may be conducted by either the in-plant bulk system or the on-board system. **G-Max Lite** may also be applied in herbicide tank mixes where the tank mix companion product is also registered for these application systems. Individuals or agents selling **G-Max Lite** in these application systems are responsible for following all state and local regulations regarding fertilizer and herbicide blending. The addition of a drying agent may be necessary if the fertilizer and herbicide blend is too wet for uniform application due to high humidity, high urea concentration, or low fertilizer use rate. Slowly add the drying agent to the blend until a flowable mixture is obtained. Drying agents are not recommended for use with on-board impregnation systems. Under some conditions, fertilizer impregnated with **G-Max Lite** may clog air tubes or deflector plates on pneumatic application systems. Mineral oil may be added to **G-Max Lite** before blending with fertilizer to reduce plugging. Do not use drying agents when mineral oil is used. To avoid separation of **G-Max Lite** and mineral oil mixes in cold temperatures, either keep mixture heated or agitated prior to blending with fertilizer. Mineral oil may be used at in-plant blending stations or on-board injection systems.

Apply 200-750 pounds of fertilizer and herbicide blend per acre. Application must be made uniformly to the soil to prevent possible crop injury and offer satisfactory weed control. Impregnated fertilizer spread at half rate and overlapped to obtain a full rate will offer a more uniform distribution. For granular fertilizer application, to protect small birds and mammals, soil incorporation of the granules is required. A shallow (1-2") incorporation is desirable for improved weed control. Deeper incorporation may result in unsatisfactory weed control.

Formula to determine the herbicide rate when using dry bulk fertilizer applications:

$$\frac{\text{Pints or pounds of herbicide per acre}}{\text{pounds of fertilizer per acre}} \times 2,000 = \frac{\text{Pints or pounds of herbicide per ton of fertilizer}}{\text{ton of fertilizer}}$$

Incompatible Mixtures

Do not impregnate **G-Max Lite** or **G-Max Lite** mixes on ammonium nitrate, potassium nitrate, or sodium nitrate fertilizers or fertilizer blends. Single superphosphate (0-20-0) and triple superphosphate (0-46-0) may be impregnated only with **G-Max Lite** alone.

III. Additives

Spray adjuvants have little or no influence on performance of **G-Max Lite™ herbicide** when applications are made prior to weed emergence. To improve burndown of emerged weeds, surfactants or low-rate fertilizer (28%, 30%, or 32% UAN or ammonium sulfate), or crop oil concentrate may be used with **G-Max Lite** alone or in tank mixes applied preplant, pre-emergence, or early postemergence to the crop. Consult your local BASF representative for recommendations for your area.

Nitrogen Source

- **Urea ammonium nitrate (UAN):** Use 1-2 gallons of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per 100 gallons spray solution. Do not use brass or aluminum nozzles when spraying UAN.
- **Ammonium sulfate (AMS):** AMS at 8-17 pounds per 100 gallons spray solution may be substituted for UAN. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned. BASF does not recommend applying AMS if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

Nonionic Surfactant

The standard label recommendation is 1-2 quarts of an 80% active nonionic spray surfactant per 100 gallons of spray solution.

Oil Concentrate

Crop oil concentrates are allowed after crop emergence only when **G-Max Lite** is used alone or in tank mixes with atrazine. See the manufacturer's label for specific rate recommendations. A crop 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**.

Table 3. Additive Rate

Additive	Rate
Nonionic Surfactant	1-2 quarts per 100 gallons
AMS	8-17 pounds per 100 gallons
UAN Solution	1-2 gallons per 100 gallons
Crop Oil Concentrate	1 quart per acre*

*See manufacturer's label for specific rate recommendations.

IV. General Tank Mixing Information

G-Max Lite may be tank mixed with one or more herbicide products according to the crop specific tank mixing instructions in this label and respective product labels. Refer to section **VI. Crop-Specific Information** to determine which tank mix products can be applied to specific crops.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **G-Max Lite** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test. For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature. Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

Always cap the jar and invert 10 cycles between component additions. When the components have all been added to the jar, let the solution stand for 15 minutes. 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. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

Mixing Order

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank one-half full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Inductor.** If an inductor is used, rinse it thoroughly after each component has been added.
- 4) **Products in PVA bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 5) **Water-dispersible products** (such as **G-Max Lite**, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 6) **Water-soluble products.**
- 7) **Emulsifiable concentrates** (oil concentrate when applicable).
- 8) **Water-soluble additives** (such as AMS or UAN when applicable).
- 9) **Remaining quantity of water.**

Maintain constant agitation during application.

V. Restrictions and Limitations

- **Restricted Use Pesticide:** This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.
- **Maximum seasonal use rate:** Do not apply more than a total of 3.5 pints of **G-Max Lite™ herbicide** per acre, per season. **G-Max Lite** contains 2.75 pounds of the active ingredient atrazine per gallon (0.34 pounds of a.i. per pint). When tank mixing or making sequential applications with atrazine, **Marksman®**, **Laddok® S-12**, or other products containing atrazine, do not exceed the following total combined amounts of atrazine:
 - **Prior to crop emergence:** Do not exceed 1.6 pounds of atrazine a.i. per acre on highly erodible soils with less than 30% plant residue cover. Do not exceed 2.0 pounds of atrazine a.i. per acre on other soils.
 - **After crop emergence:** Do not exceed 2.0 pounds of atrazine a.i. per acre on any soil.
 - **Prior to and after crop emergence (sequential applications):** Do not exceed 2.5 pounds of atrazine a.i. per acre on any soil.
- **Preharvest Interval (PHI):** Refer to section VI. **Crop-Specific Information** for crop-specific preharvest intervals and feeding and grazing restrictions.
- **Restricted Entry Interval (REI): 12 hours**
- **G-Max Lite** is not for sale, distribution, or use in Nassau or Suffolk counties in New York state .
- **Crop Rotation Restriction:**
 - If the crop treated with **G-Max Lite** is lost to adverse weather or for other reasons, the area treated may be replanted to corn and grain sorghum immediately. If the original **G-Max Lite** treatment was broadcast, do not make a second application of **G-Max Lite** if the combined rate exceeds the maximum rate per season. If the original application was banded and the second crop is planted in the row middles, a second band application may be applied.
 - Corn, sorghum, soybeans, cotton or peanuts may be planted the year following treatment. Injury may occur to soybeans planted on soils having a calcareous surface layer.
 - Do not plant sugarbeets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legume's and grasses the year following application, or injury may occur.
- **Stress:** Do not apply to crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as injury may result.
- Do not apply through any type of **irrigation** equipment. Do not contaminate irrigation ditches or water used for domestic purposes.

VI. Crop-Specific Information

Corn (Field, Pop, Seed, and Sweet)

G-Max Lite™ herbicide may be applied preplant surface, preplant incorporated, pre-emergence, or postemergence to corn up to 12" tall. Corn in this label refers to field corn (grown for grain, silage, or seed), sweet corn (not including sweet corn grown for seed), and popcorn. Before applying **G-Max Lite** to seed corn, sweet corn, or popcorn, verify with your local seed company (supplier) the **G-Max Lite** selectivity on your inbred line or hybrid to help avoid potential injury to sensitive hybrid's.

Refer to section II. **Application Instructions** to determine **G-Max Lite** use rates by soil type and use pattern.

Crop-Specific Restrictions and Limitations

Corn may be grazed or fed to livestock 40-days or more after application of **G-Max Lite**. Sweet corn ears may be harvested 50-days or more after application of **G-Max Lite**.

Corn Tank Mixes

G-Max Lite may be tank mixed or applied sequentially in corn with one or more of the following herbicide products according to the specific tank mixing instructions in this label and respective product labels. Refer to the tank mix product labels to confirm that the respective tank mix products are registered for use on the specific corn types, as not all corn products are registered for use on seed, pop and sweetcorn.

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

- Accent™
- Accent Gold®
- Atrazine
- Balance® Pro¹
- Banvel®
- Basagran®
- Basis Gold®
- Beacon®
- Callisto™
- Clarity®
- Eradicane®
- Gramoxone® Extra
- Hornet™
- Laddok® S-12
- Liberty®²
- Lightning®³
- Marksman®
- Option®
- Outlook™⁴
- Princep®
- Prowl®
- Pursuit®³
- Ready Master™ ATZ®
- Python®
- Roundup Ultra®⁵
- Steadfast™
- Touchdown®
- 2,4-D⁶

¹ To improve weed control of some species, particularly velvetleaf, tank mix 1.5 - 2.25 fluid ounces of **Balance Pro** per acre with the recommended rate of **G-Max Lite**.

² Use only in **Liberty Link®** (glufosinate tolerant) corn hybrid.

³ Use only in **Clearfield®** (imidazolinone tolerant) corn hybrid.

⁴ Do not exceed a total of 0.98 pounds a.i. of dimethenamid-P per crop season.

⁵ includes postemergence tank mixes on **Roundup Ready®** (glyphosate tolerant) corn hybrid.

⁶ For preplant or preemergence use only, 2,4-D is not recommended for use within 7 days prior to or 3 days after planting. For preemergence applications, make sure seed furrows are closed and corn seed is covered by a minimum of 1.5" of soil to reduce the chance of injury.

Corn Sequential Programs

G-Max Lite may be used in sequential programs in corn for enhanced control of annual weeds, including those difficult to control or partially controlled weeds listed in **Table 1**. **G-Max Lite** followed by postemergence applied broadleaf and/or grass herbicide can be used in a planned sequential program or in the event of escaped annual weeds from earlier soil applications. Apply the following herbicides sequentially to **G-Max Lite**:

- **Celebrity Plus®**
- **Distinct®**
- **Marksman®**
- **Clarity®**
- **Lightning®¹**

¹ Use only in **Clearfield®** (imidazolinone tolerant) corn hybrid.

Sorghum (grain)

G-Max Lite may be applied preplant, preplant incorporated, preemergence or postemergence to grain sorghum up to 12" tall.

All **G-Max Lite** applications must only be made to sorghum seed that has been properly treated by the seed company with an approved chloroacetamide herbicide safener or severe injury may occur. Refer to section II. **Application Instructions** to determine **G-Max Lite** use rates by soil type and use pattern. Do not use **G-Max Lite** on sorghum planted in coarse-textured soil.

For best performance make preemergence surface applications within 5 days of the last preplant tillage. Under high soil moisture or cool conditions, **G-Max Lite** application may cause temporary stunting or leaf wrapping of sorghum. Sorghum will normally outgrow these symptoms in 10-14 days.

G-Max Lite is not registered for use on sweet or forage sorghum.

Sorghum forage may be grazed or fed to livestock 60 days or more after application of **G-Max Lite**. Grain and fodder may be harvested and fed 80 days or more after application of **G-Max Lite**.

Sorghum Tank Mixes

G-Max Lite may be tank mixed or applied sequentially in sorghum with one or more of the following herbicide products according to the specific tank mixing instructions in this label and respective product labels. Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

- Atrazine
- Basagran®
- Clarity®¹
- Cyclone®
- Fallow Master®
- Gramoxone® Extra
- Laddok® S-12
- Landmaster®
- Paramount®
- Peak®
- Permit®
- Roundup Ultra®
- Roundup Ultra® RT

¹ Tank mix applications preplant only.

In addition to the tank mixes listed, **G-Max Lite** can be used in sequential applications with other herbicides labeled for use in grain sorghum such as: **Buctril®**, **Marksman®**, **Weedmaster®** or 2,4-D.

Pests listed in this label:	
Common Name	Scientific Name
Amaranth, palmer	<i>Amaranthus palmeri</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Buckwheat, wild	<i>Polygonum convolvulus</i>
Chamomile, mayweed	<i>Anthemis cotula</i>
Carpetweed	<i>Mullugo verticillata</i>
Cocklebur, common	<i>Xanthium pensylvanicum</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
, smooth	<i>Digitaria ischaemum</i>
Cupgrass, southwestern	<i>Eriochloa gracilis</i>
, woolly	<i>Eriochloa villosa</i>
Eclipta	<i>Eclipta alba</i>
Flatsedge, rice	<i>Cyperus iria</i>
Foxtail, giant	<i>Setaria faberi</i>
, green	<i>Setaria viridis</i>
, yellow	<i>Setaria lutescens</i>
Galinsoga	<i>Galinsoga spp.</i>
Goosegrass	<i>Eleusine indica</i>
Jimsonweed	<i>Datura stramonium</i>
Johnsongrass (seedling)	<i>Sorghum halepense</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</i>
Millet, wild proso	<i>Panicum miliaceum</i>
Morningglory, annual	<i>Ipomoea spp.</i>
Mustards	<i>Brassica spp.</i>
Nightshade, black	<i>Solanum nigrum</i>
, eastern black	<i>Solanum ptycanthum</i>
, hairy	<i>Solanum sarachoides</i>
Nutsedge, yellow	<i>Cyperus esculentus</i>
Oats, wild	<i>Avena fatua</i>
Panicum, fall	<i>Panicum dichotomiflorum</i>
, Texas	<i>Panicum texanum</i>
Pigweed, prostrate	<i>Amaranthus blitoides</i>
, redroot	<i>Amaranthus retroflexus</i>
, smooth	<i>Amaranthus hybridus</i>
, tumble	<i>Amaranthus albus</i>
Pusley, Florida	<i>Richardia scabra</i>
Purslane, common	<i>Portulaca oleracea</i>
Red Rice	<i>Oryza sativa</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
, giant	<i>Ambrosia trifida</i>
Sandbur	<i>Cenchrus spp.</i>
Shattercane	<i>Sorghum bicolor</i>
Signalgrass, broadleaf	<i>Brachiaria platphylla</i>
Smartweed species	<i>Polygonum spp.</i>
Spurge, nodding	<i>Euphorbia nutans</i>
, spotted	<i>Euphorbia maculata</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Waterhemp, common	<i>Amaranthus rudis</i>
, tall	<i>Amaranthus tuberculatus</i>
Witchgrass	<i>Panicum capillare</i>

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Crops

This product can be used on the following crops:

**Corn (Field, Pop, Seed, and Sweet)
Sorghum, Grain**

Look inside for complete **Restrictions and
Limitations and Application Instructions.**

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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