

AM 25 10182-201

file 1014



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

JAN 21 1994

WAYNE R. HILLEBRECHT
ZENECA INC.
ZENECA AG PRODUCTS
NEW MURPHY ROAD & CONCORD PIKE BOX 751
WILMINGTON, DE 19897

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/29/93 in Response to PR Notice 93-7
EPA REG. NO. 10182-201
SUTAZINE + 18 - 6G SELECTIVE HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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Page 2

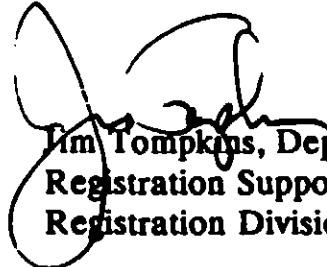
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

30414

RESTRICTED USE PESTICIDE
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.

SUTAZINE®+ 18-6G
Selective Herbicide

Granules - For Selective Weed Control in Corn
(Field, Sweet, Silage, and Popcorn)

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 21 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
10182-201

ACTIVE INGREDIENTS:

Butylate:	
S-ethyl diisobutylthiocarbamate	18.0%
Atrazine:	
2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine	5.7%
Related triazines	0.3%
INERT INGREDIENTS:	<u>76.0%</u>
Total	100.0%

Contains 18 pounds of S-ethyl diisobutylthiocarbamate (butylate) and 6 pounds of atrazine active ingredient per 100 pounds.

EPA Reg. No. 10182-201
EPA Est. No. 10182-

___ Lbs. Net Wt.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19897

4874

STATEMENT OF PRACTICAL TREATMENT

If a known exposure occurs or is suspected, immediately start the procedures given below. If further treatment is required, contact a Poison Control Center, a physician, or the nearest hospital.

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by gagging the victim with a finger placed on the back of the victim's tongue. Give fluids until vomitus is clear. If victim is unconscious or convulsing, do not induce vomiting or give anything by mouth.

IF ON SKIN: Flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes before reuse. Seek medical attention if irritation occurs.

IF IN EYES: Hold eyelids apart and flush with plenty of water for 15 minutes. Seek medical attention if irritation occurs.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

READ ALL LABEL DIRECTIONS BEFORE USING

5044

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED. Avoid contact with skin, eyes, and clothing. Avoid inhalation of dust. Wash thoroughly with soap and water after use.

~~Users are required to wear long-sleeve shirts and long pants or equivalent, chemical-resistant gloves, and boots (waterproofed). In addition, persons involved in mixing/loading operations are required to use heavy-duty chemical-resistant gloves or neoprene gloves and a face shield or goggles.~~

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks

BEST AVAILABLE COPY

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

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

Atrazine leaches readily and accepted label rates have been found to result in contamination of water supplies by way of groundwater. Therefore, users are advised to avoid use of atrazine in well-drained soils, particularly in areas having high groundwater tables.

60714

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

This pesticide 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. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

70114

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection 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
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

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GENERAL INFORMATION

SUTAZINE®+ 18-6G is a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label by interfering with normal germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

GENERAL USE PRECAUTIONS

- Read all label directions before using. Apply this product as specified on this label.
- This product is intended for preplant or preemergence application only. No postemergence use is permitted.
- Failure to strictly follow label directions may result in exceeding the maximum annual atrazine use rates as stipulated by the Environmental Protection Agency.

8014

- Where sequential postemergence treatments with appropriately registered products containing atrazine are necessary, do not exceed a total of 2.5 pounds active ingredient atrazine per acre per calendar year.
- This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. 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.
- Do not apply this product through any type of irrigation system.
- The maximum application rate for corn is 2.5 pounds of atrazine active ingredient per acre per calendar year.
- This product is recommended for use on mineral soils only.
- Do not use on milo or sorghum. Do not use on corn seed stock (Breeders, Foundation, or Increase). SUTAZINE+ 18-6G may be used on Production seed corn.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not contaminate food or feed.
- Do not store near seeds, fertilizers, or foodstuffs.
- Applied according to directions and under normal growing conditions, SUTAZINE+ 18-6G will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or hot and dry weather, insect or plant disease attack, the use of certain soil-applied systemic insecticides, improperly placed fertilizers or soil insecticides, may create abnormal conditions that weaken crop seedlings. SUTAZINE+ 18-6G used under these abnormal conditions could result in crop injury.
- Care should be taken to avoid use where adjacent desirable trees, shrubs, or plants may be injured as a result of the product leaching through the soil.
- Make only one application per crop.
- After treatment with SUTAZINE+ 18-6G selective herbicide, do not plant any crop except corn until the following year or injury may occur.
- Following corn harvest, thoroughly invert soil (deep disk or plow) in the fall or early spring to minimize injury potential to rotational spring seeded crops. Corn or soybeans (south of I-80) only) may be planted the spring season following treatment. Injury may occur to soybeans planted north of I-80 on soils with a calcareous surface layer. Small grains may be planted 15 months following treatment. All other atrazine-sensitive crops may be planted 18 months after application.

90414

- Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

WEEDS CONTROLLED

This product will not control established weeds.

ANNUAL GRASSES

Barnyardgrass	<i>Echinochloa crusgalli</i>
Crabgrass	<i>Digitaria</i> spp.
Fall Panicum	<i>Panicum dichotomiflorum</i>
Giant Foxtail	<i>Setaria faberii</i>
Goosegrass	<i>Eleusine indica</i>
Green Foxtail	<i>Setaria viridis</i>
Seedling Bermudagrass	<i>Cynodon dactylon</i>
Seedling Johnsongrass ¹	<i>Sorghum halepense</i>
Shattercane ^{1,2}	<i>Sorghum bicolor</i>
Wild Oats	<i>Avena fatua</i>
Witchgrass	<i>Panicum capillare</i>
Yellow Foxtail	<i>Setaria glauca</i>
Texas Panicum; (Buffalograss/Coloradograss) ^{1,3}	<i>P. Texanum</i>

¹Cultivation is suggested in addition to the SUTAZINE+ 18-6G treatment in fields with heavy infestation of shattercane, Texas panicum, and seedling johnsongrass.

²Partial control (suppression) only.

³Southeast Region only.

ANNUAL BROADLEAF WEEDS

Annual Morningglory	<i>Ipomoea purpurea</i>
Carpetweed	<i>Mollugo verticillata</i>
Cocklebur (Common)	<i>Xanthium pensylvanicum</i>
Jimsonweed	<i>Datura stramonium</i>
Lambsquarters	<i>Chenopodium album</i>
Mustards	<i>Brassica</i> spp.
Nightshade	<i>Solanum</i> spp.
Common Purslane	<i>Portulaca oleracea</i>
Ragweed	<i>Ambrosia</i> spp.
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Prostrate Pigweed	<i>Amaranthus graecizans</i>
Smooth Pigweed	<i>Amaranthus hybridus</i>
Smartweed	<i>Polygonum</i> spp.
Velvetleaf	<i>Abutilon theophrasti</i>
Florida Pusley	<i>Richardia scabra</i>

PERENNIAL GRASSES

Purple Nutsedge	<i>Cyperus rotundus</i>
Yellow Nutsedge	<i>Cyperus esculentus</i>

Existing stands of nutsedge must be turned under and chopped up thoroughly before treatment. Cultivation is suggested in addition to the SUTAZINE+ 18-6G treatment in fields with moderate to heavy nutsedge infestations.

APPLICATION DIRECTIONS

Apply only to well-worked soil that is dry enough to permit thorough mixing with incorporation equipment. Uniformly apply the recommended rate of SUTAZINE+ 18-6G using equipment designed for application of granular herbicides. Equipment should be carefully calibrated before use and checked frequently during application to be sure it is working properly and delivering a uniform distribution pattern. Avoid overlaps that will increase dosage above recommended rates as plant injury may occur.

In irrigated areas, do not apply before preirrigation.

Dry Bulk Fertilizer - SUTAZINE+ 18-6G may be mixed with dry bulk fertilizer and applied before planting as the fertilizer is spread. See Appendix I.

- Bulk fertilizer mixed with SUTAZINE+ 18-6G should be applied immediately, not stored.
- It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce probability of SUTAZINE+ 18-6G loss via volatilization.
- SUTAZINE+ 18-6G and fertilizer must be incorporated on the same day as applied.

Banded After Planting - SUTAZINE+ 18-6G may be applied in a band following planting. Use standard planter attached equipment designed for band application of granular herbicides. Apply and incorporate in the same operation using equipment that attaches to the back of the applicator and incorporates 1 to 1-1/2 inches deep.

INCORPORATION DIRECTIONS

SUTAZINE+ 18-6G must be incorporated into the soil after application to prevent loss of the butylate. Whenever possible, application and incorporation should be done in the same operation. When application and incorporation are done in separate operations, SUTAZINE+ 18-6G must be incorporated on the same day as applied. Application must be made on a dry soil surface (at least 1/2 inch deep) free from dew and incidental moisture.

SOIL MIXING (INCORPORATION) BEFORE PLANTING

Incorporate using power-driven cultivation equipment set to cut to a depth of 2 to 3 inches, or a tandem disc set to cut to a depth of 4 to 6 inches, operated at 4 to 6 mph, followed by a spiked-tooth harrow or some other leveling device which extends beyond the ends of the disc. For thorough mixing, disc in two different directions (cross disc). Prior to the second discing adjust the disc to prevent cutting deeper than 4 to 6 inches.

PLANTING

Do not plant seed deeper than 2 inches. For SUTAZINE+ 18-6G application made before planting, seeding can be done immediately or it may be delayed up to 2 weeks. To avoid removing SUTAZINE+ 18-6G from the row (with loss of weed control in the row), do not move

110214

or shape soil after treatment, such as by planting in deep furrows. If it is necessary to work the soil following application and incorporation, but before planting, do not work the soil deeper than the depth the herbicides were incorporated.

RECOMMENDATIONS

Do not use on any type corn in Arizona or in the ten southernmost California counties (except Kern County where field and silage corn may be treated).

NOTE: All doses expressed as broadcast rates per acre. For band applications, reduce dosage proportionately depending upon the row spacing and band width to be treated.

BEFORE PLANTING (PREPLANT) APPLICATION

In The North Central, Northeastern, and Midwestern Corn Growing Areas

Apply and incorporate 16-2/3 to 22-2/3 pounds of SUTAZINE+ 18-6G per broadcast acre. Use the higher rate on extremely heavy soils (fine textured-clay) with over 5% organic matter. On fields with moderate to heavy infestations of shattercane or nutsedge, use the higher rate regardless of soil texture, except on blow sands and the light soils (coarse textured-sandy) of the Eastern Coastal States. Cultivation is suggested in addition to the SUTAZINE+ 18-6G treatment in fields with moderate to heavy infestations of shattercane or nutsedge.

In All Other Corn Growing Areas

Apply and incorporate 16-2/3 pounds of SUTAZINE+ 18-6G per broadcast acre. Cultivation is suggested in addition to the SUTAZINE+ 18-6G treatment in fields with moderate to heavy infestations of shattercane, nutsedge or buffalograss (Texas panicum).

AFTER PLANTING APPLICATION

Note: Recommended in the following states *only* – North and South Dakota, Nebraska, Kansas, Minnesota, and Iowa .

If *local* conditions in the above-named states make preplant SUTAZINE+ 18-6G application unfeasible, the product may be applied and mixed into the soil at any time after planting before emergence of corn. Apply and incorporate 16-2/3 pounds SUTAZINE+ 18-6G per broadcast acre. For band applications, use standard planter attached equipment designed for band application of granular herbicides. Normally, application and incorporation are done in the same operation using equipment that attaches to the back of the applicator, i.e., row wheels, vibro tillers, and similar equipment. Incorporate to a depth of 1 to 1-1/2 inches. A rotary hoe can be used set to cut to a depth of 1-1/2 inches operated at 6 to 8 mph.

NOTE: After planting application is not recommended for control of nutsedge, Texas panicum, or shattercane. See "BEFORE PLANTING (PREPLANT) APPLICATION" for control of these weeds.

CULTURAL PRACTICES FOLLOWING APPLICATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. When cultivating for any reason, it should be shallow, i.e., no more than 1/2 the depth the herbicide was incorporated.

12/14

Appendix I

Blending with Dry Bulk Fertilizers

- SUTAZINE+ 18-6G may be mixed with dry bulk fertilizer.
- All individual state regulations relating to dry bulk fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide and fertilizer mixtures.

Approved Dry Bulk Fertilizer Ingredients for Use with SUTAZINE+ 18-6G Alone			
Fertilizer Ingredient	N	P	K
Ammonium sulfate	21	0	0
Diammonium phosphate	18	46	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Urea*	45	0	0
Ammonium phosphate-sulfate	16	20	0
K-Mag/Sul-Po-Mag	0	0	21
Monoammonium phosphate	11	48	0

- Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.
- Uniform application in the field is necessary to assure good results.

13044

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Keep container closed when not in use. Do not store near seeds, fertilizers, or foodstuffs.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14044

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America. Patent No. 4,021,224;4,137,070.

SUTAZINE® is a trademark of a ZENECA Group Company.