

(STAUFFER SHIELD)

BETASAN® 4E

A SELECTIVE HERBICIDE FOR PRE-EMERGENCE CONTROL OF CRABGRASS AND ANNUAL BLUEGRASS IN TURF, ORNAMENTALS AND GROUND COVERS

CONTAINS 4 POUNDS OF BETASAN PER GALLON

ACTIVE INGREDIENT:

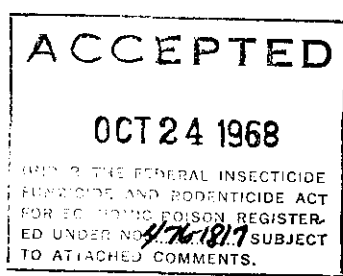
S-(Q,Q-DIISOPROPYL PHOSPHORODITHIOATE) OF

N-(2-MERCAPTOETHYL) BENZENESULFONAMIDE----- 45.2%

INERT INGREDIENTS ----- 54.8%

100.0%

U. S. PATENT No. 3,205,253



CAUTION

KEEP OUT OF REACH OF CHILDREN

HARMFUL IF SWALLOWED. AVOID PROLONGED OR REPEATED CONTACT WITH THE SKIN. AVOID CONTACT WITH THE EYES. AVOID CONTAMINATION OF FOOD AND FEED, DRINKING WATER, FISH PONDS, ETC.

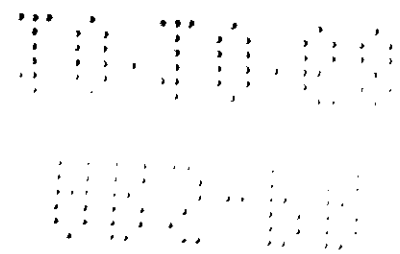
DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME

READ ALL DIRECTIONS BEFORE USING

MADE IN U.S.A.

STAUFFER CHEMICAL COMPANY

NEW YORK, NEW YORK



WEEDS CONTROLLED

- SMOOTH CRABGRASS (DIGITARIA ISCHAEMUM)
- HAIRY CRABGRASS (DIGITARIA SANGUINALIS)
- REDROOT PIGWEED (AMARANTHUS RETROFLEXUS)
- BARNYARDGRASS (WATERGRASS) (ECHINOCHLOA SPP.)
- LAMBSQUARTERS (CHENOPODIUM ALBUM)
- GOOSEGRASS (ELEUSINE INDICA)
- ANNUAL BLUEGRASS (POA ANNUA)
- SHEPHERDSPURSE (CAPSELLA BURSA-PASTORIS)
- DEADNETTLE (HENBIT) (LAMIUM SPP.)

GENERAL USE PRECAUTIONS

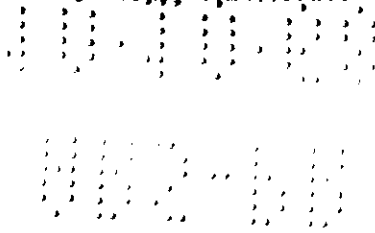
BETASAN SHOULD BE USED ONLY FOR RECOMMENDED USES AND AT RECOMMENDED RATES. APPLY WHEN THERE IS LITTLE OR NO WIND TO AVOID DRIFT. CLEAN UP SPILLS ON WALKS OR PATIOS BY COVERING WITH DRY SOIL OR ABSORPTIVE MATERIAL. BURY SWEEPINGS AND HOSE AREA. RINSE EQUIPMENT AND CONTAINERS AND DISPOSE OF WASTES BY BURYING IN NON-CROP LANDS AWAY FROM WATER SUPPLIES. DISPOSE OF CONTAINER BY CRUSHING IT AND BURYING IT WITH WASTES. DO NOT ALLOW CHILDREN OR PETS ON TREATED LAWNS UNTIL BETASAN HAS BEEN WATERED INTO THE SOIL AND GRASS IS COMPLETELY DRY. AVOID CONTAMINATION OF FOOD AND FEED. TOXIC TO FISH. DO NOT CONTAMINATE ANY BODY OF WATER BY DIRECT APPLICATION, CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES AND CONTAINERS.

PRODUCT INFORMATION

BETASAN IS RECOMMENDED FOR USE ON HOME LAWNS, PARKS AND GOLF COURSES, ON ORNAMENTAL PLANTS AND ON GROUND COVERS FOR CONTROL OF CRABGRASS, ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS LISTED.

DIRECTIONS FOR APPLICATION

APPLICATION OF BETASAN MUST PRECEDE EMERGENCE OF WEEDS FROM THE SOIL. CRABGRASS WILL EMERGE FROM THE SOIL FROM FOUR TO SIX WEEKS BEFORE IT IS VISIBLE ABOVE LAWN SOD. IF WEEDS ARE VISIBLE ABOVE THE SOIL, IT IS TOO LATE TO APPLY BETASAN. REMOVE LEAVES, DEAD OR TALL GRASS, AND OTHER DEBRIS, OR THOROUGHLY WORK THEM INTO THE SOIL BEFORE APPLYING BETASAN. BETASAN IS RECOMMENDED FOR USE ON MINERAL SOILS ONLY. DO NOT APPLY PEAT MOSS TO LAWN, GROUND COVERS OR ESTABLISHED ORNAMENTALS BEFORE TREATING WITH BETASAN.



## TIMING OF APPLICATION -- GENERAL COMMENTS

GRASS LAWNS: BETASAN SHOULD BE APPLIED ONLY TO WELL ESTABLISHED GRASS LAWNS. BETASAN CAN BE USED ON THE FOLLOWING ESTABLISHED TURF GRASSES:

BAHIA	CENTPEDE	POA TRIVIALIS
BENTGRASS SPP.	FESCUE SPP.	SAINT AUGUSTINE
BERMUDAGRASS	PENSACOLA	RED TOP
PERENNIAL BLUEGRASS SPP.	PERENNIAL RYEGRASS	ZOYSIA

DICHONDRA LAWNS: BETASAN CAN BE APPLIED TO DICHONDRA LAWNS AT THE TIME OF SEEDING OR ANY TIME THEREAFTER.

ORNAMENTALS AND GROUND COVERS: BETASAN SHOULD BE APPLIED ONLY TO THE FOLLOWING ORNAMENTALS AND GROUND COVERS:

ALYSSUM	CORAL BELL	STOCK
ASTER	DAISY	SWEET PEA
BACHELOR'S-BUTTON	MARIGOLD	WALL FLOWER
CALENDULA	PANSY	ZINNIA
CANDY-TUFT	PRIMROSE	

DAFFODIL	GLADIOLUS	RANUNCULUS
DAHLIA	NARCISSUS	TULIP
FREESIA		

ABELIA	JUNIPER	PYRACANTHA
AZALEA	MONTEREY CYPRESS	SANDANKWA
AZARA	MONTEREY PINE	STAR JASMINE
BOXWOOD	MYRTLE	TOBIRA
DAPHNE	PRIVET	XYLOSMA
HOLLY		

AJUGA	HYPERICUM	PERIWINKLE
CAMPANULA	ICE PLANT	SEDUM
GAZANIA	IVY	WILD STRAWBERRY
	PACHYSANDRA	

FOR CONTROL OF CRABGRASS, APPLY BETASAN AT THE RECOMMENDED RATE (SEE "RATES OF APPLICATION") ANY TIME FROM FALL -- SEPTEMBER OR OCTOBER -- THROUGH EARLY SPRING FOR SPRING AND SUMMER CONTROL, WITH A LATE WINTER OR AN EARLY SPRING APPLICATION, THE APPLICATION MUST BE MADE PRIOR TO CRABGRASS EMERGENCE (SEE "DIRECTIONS FOR APPLICATION").

FOR CONTROL OF ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS, APPLY BETASAN AT THE RECOMMENDED RATE. (SEE "RATES OF APPLICATION") BEFORE THE WEEDS EMERGE FROM THE SOIL. CONSULT STATE AGRICULTURAL EXPERIMENT STATION WEED SPECIALISTS OR THE STATE AGRICULTURAL EXTENSION SERVICE FOR ADDITIONAL INFORMATION AS THE TIMING AND RATE OF APPLICATION NEEDED WILL VARY WITH LOCAL CONDITIONS.

IN SOUTHERN OR WESTERN STATES WHERE GERMINATION OF CRABGRASS, ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS EXTENDS INTO THE LATE SUMMER AND EARLY FALL, A SECOND APPLICATION OF BETASAN AT THE RECOMMENDED RATES SHOULD BE MADE FOUR TO FIVE MONTHS AFTER THE INITIAL APPLICATION.

BETASAN SHOULD BE APPLIED WITH SPRAY EQUIPMENT THAT WILL PROVIDE UNIFORM APPLICATION SUCH AS A KNAPSACK SPRAYER, HOSE PROPORTIONER, OR PRESSURE SPRAYER.

SPRINKLE WITH WATER FOR 10 TO 15 MINUTES AFTER APPLICATION TO WASH THE BETASAN OFF THE GRASS AND DOWN INTO THE SOIL WHERE THE WEED SEEDS ARE LOCATED.

### RATES OF APPLICATION

CRABGRASS: APPLY 2-1/2 GALLONS OF BETASAN 4E IN 80 TO 100 GALLONS OF WATER UNIFORMLY ON ONE ACRE (7.4 FL. OZ. PER 1,000 SQ. FEET).

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: APPLY 3-1/8 GALLONS OF BETASAN 4E IN 80 TO 100 GALLONS OF WATER UNIFORMLY ON ONE ACRE (9.4 FL. OZ. PER 1,000 SQ. FEET).

### RE-SEEDING

ANY MATERIAL THAT PROVIDES EFFECTIVE CONTROL OF ANNUAL GRASSES MAY AFFECT NEW LAWN GRASS SEEDLINGS WHICH GERMINATE AFTER TREATMENT. PROPER FERTILIZATION AND WATERING WILL ENCOURAGE THE EXISTING TURF GRASS TO FILL IN THE THIN OR BARE SPOTS FORMERLY OCCUPIED BY CRABGRASS.

THE FOLLOWING PROCEDURES ARE SUGGESTED IN ORDER TO MINIMIZE ANY STUNTING OF TURF GRASSES WHICH MAY OCCUR WHEN RE-SEEDING INTO BETASAN-TREATED AREAS:

- (1) DO NOT RE-SEED WITHIN FOUR MONTHS AFTER APPLICATION.
- (2) RENOVATE THE AREA TO BE RE-SEEDED BY RAKING THOROUGHLY AND MIX STERILIZED (WEED-FREE) ORGANIC MULCH (50-50 BY VOLUME) INTO THE TOP TWO INCHES OF SOIL.

NOTICE: STAUFFER CHEMICAL COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR ANY PARTICULAR PURPOSE, CONCERNING THIS MATERIAL, EXCEPT THOSE WHICH ARE CONTAINED ON STAUFFER'S LABEL.