

ACCEPTED

24 1994

SPECIMEN LABEL

FOR AGRICULTURAL USE ONLY

45639-160

CQ 1451

SUGAR BEET HERBICIDE

Postemergence Herbicide for Control of Weeds in Sugar Beets

ACTIVE INGREDIENTS:

Phenmedipham*

6%

Desmedipham**

6%

Ethofumesate***

6%

INERT INGREDIENTS:

82%

TOTAL

100%

Contains 1.6 lbs. active ingredient per gallon.

*3-methoxycarbonylamino-phenyl-3-methylcarbanilate

**Ethylm-hydroxycarbanilate carbanilate (ester)

***2-ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl
methanesulfonate

EPA Reg. No. 45639-

EPA Est. No. 407-MN-1

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este pro-
ducto hasta que la etiqueta haya sido explicada ampliamente.

KEEP OUT OF REACH OF CHILDREN

DANGER -- PELIGRO

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Call a physician or poison control center. If medical assistance cannot be given immediately, drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol. Do not attempt to give anything by mouth to an unconscious (or convulsing) person. See note to physician, below.

Note to Physician: This product contains aromatic and other organic solvents which, if aspirated into the lungs during induced vomiting, may cause chemical pneumonitis and pulmonary edema. Ingested material should be removed by gastric lavage with an endotracheal tube in place. However, please be aware that the solvents are corrosive to eyes and probable mucosal damage (by contact) may contraindicate use of gastric lavage.

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If in Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes.

If on Skin: Wash immediately with plenty of soap and water

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**THIS ECHO-SYSTEM™ CONTAINER IS THE SOLE PROPERTY OF
NOR-AM CHEMICAL COMPANY.
SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS**

NOR-AM Chemical Company
A Schering Berlin Company
AGRIBUSINESS DIVISION
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Net Contents:

U.S. Patent Nos. 3,404,975;
3,692,820; 3,689,507



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

DANGER

HARMFUL IF SWALLOWED. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

HARMFUL IF INHALED. AVOID BREATHING VAPOR OR SPRAY MIST. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. DO NOT GET IN EYES OR ON CLOTHING. WEAR GOGGLES OR FACE SHIELD.

ENVIRONMENTAL HAZARDS

THIS PESTICIDE IS TOXIC TO FISH AND AQUATIC ORGANISMS. DO NOT APPLY DIRECTLY TO WATER, 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 THROUGH DISPOSAL OF EQUIPMENT WASHWATERS.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

STORAGE AND DISPOSAL

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 CQ 1451 from freezing temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or 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.

CONTAINER DISPOSAL: ECHO-SYSTEM SVR Return Procedure: Return the ECHO-SYSTEM SVR container clean (outside only) and empty to the place of business from which the CQ 1451 was purchased.

IN CASE OF FIRE, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.

GENERAL INFORMATION

CQ 1451 is a selective postemergence herbicide for use in sugar beets (including beets grown for seeds) for the control of the following weeds. Annual bluegrass (*Poa annua*), Annual sowthistle (*Sonchus oleraceus*), Black nightshade (*Solanum nigrum*), Hairy nightshade (*Solanum sarrachoides*), Canary grass (*Phalaris canariensis*), Coast fiddleneck (*Amsinckia intermedia*), Common

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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*), Pigeon grass (yellow foxtail) (*Setaria glauca*) Prostrate pigweed (*Amaranthus gracizans*), Purslane (*Portulaca oleraceus*), Redroot pigweed (*Amaranthus retroflexus*), Shepherdspurse (*Capsella bursa-pastoris*), Wild buckwheat (*Polygonum convolvulus*), Wild mustard (*Brassica kaber*).

* Spray kochia while in the rosette stage, less than 1" in diameter. For best results, spray when the weeds are at the two-leaf stage.

USE PRECAUTIONS: DO NOT APPLY CQ 1451 TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.

DO NOT EXCEED A TOTAL OF 14.5 PINTS CQ 1451 PER ACRE PER SEASON. DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

CQ 1451 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 (85° 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 evening when the temperature is lower.
- △ Windy conditions or drought.
- △ Use of a preplant or pre-emergence 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.

If extreme weather conditions are of short duration, delay spraying until the end of such a period. If CQ 1451 applications must be made on days with extreme temperature and/or brightness, delay spraying until evening.

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

Do not spray while dew is present.

Rainfall 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.

IMPORTANT: CQ 1451 may cause temporary growth retardation and/or chlorosis or tipburn on sugar beets. Beets usually resume normal growth within 10 days.

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DIRECTIONS FOR USE

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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.

REENTRY STATEMENT: Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Reentry into treated areas is prohibited until leaves are completely dry.

Do not enter treated areas without protective clothing.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

WARNING: Area treated with CQ 1451 on (date of application). Do not enter without appropriate protective clothing until leaves are completely dry. In case of accidental exposure see Statement of Practical Treatment on the label.

When used as directed, CQ 1451 is selective in beets past the two-true leaf stage. Beets may be severely injured if treated before the two-true leaf stage. 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. Best results are obtained when the weeds are actively growing and are not under water or heat stress.

Mixing the Spray: Make sure the Sprayer is CLEAN.

CQ 1451 contains sufficient wetting agents for optimum coverage. Do not add additional wetting agents or other spray adjuvants. Add sufficient water to fill the lines. Then add the desired amount of CQ 1451 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

By Ground: Apply CQ 1451 at the rate of 3.75 to 5.75 pints in 20 to 50 gallons water broadcast basis. For band application, see dosage chart.

By Air: Apply CQ 1451 at the rate of 3.75 to 5.75 pints per acre using 5 to 15 gallons of spray per acre.

Apply the 3.75 to 5.75 pint rates only to sugar beets past the two-true leaf stage. Use the 5.75 pint rate only on well-established beets which are not under stress.

In order to avoid phytotoxic spray drift to non-target crops during application of CQ 1451, the following buffer zones should be observed:

Cotton, Potatoes, Sunflowers,	
Sorghum, Wheat	50 feet
Blackeye beans, Cabbage, Flax	100 feet
Lettuce, Rape, Tomatoes	300 feet

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

To avoid excessive phytotoxicity to fall-planted sugar beets in Arizona and south of the Tehachapi Mountains in California when temperatures are above 85°F, apply CQ 1451 at the rate of 3.75 pints per acre (broadcast equivalent). Evening applications are recommended.

For further information, contact your County Agricultural Agent, Farm Advisor or NOR-AM Chemical Company.

REPEAT APPLICATION OF CQ 1451: For control of later germinating weeds, make a second application of CQ 1451. Use 3.75 to 5.75 pints of CQ 1451. Allow at least 7 days between first and second applications. Apply when 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 beets are under stress as explained on the previous page, the General Information section.

SPLIT (LOW RATE) APPLICATIONS: Split (low rate) applications of CQ 1451 may be applied to sugar beets to control early germinating weeds. The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See Chart 1, below, for broadcast rates. See Chart 2, below, for equivalent band rates. For band applications, apply in 5-10 gallons of water per acre. 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 above will be necessary.

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CQ 1451 broadens and enhances the control of troublesome weeds, including the following:

ANNUAL BROADLEAF WEEDS

Annual sowthistle	<i>Sonchus oleraceus</i>
Black nightshade	<i>Solanum nigrum</i>
Hairy nightshade	<i>Solanum sarrachoides</i>
Coast fiddleneck	<i>Amsinckia intermedia</i>
Common chickweed	<i>Stellaria media</i>
Common lambsquarters	<i>Chenopodium album</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Groundcherry	<i>Physalis lanceifolia</i>
Kochia*	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
London rocket	<i>Sisymbrium irio</i>
Nettleleaf goosefoot	<i>Chenopodium murale</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>
Prostrate pigweed	<i>Amaranthus gracizans</i>
Purslane	<i>Portulaca oleraceus</i>
Redroot pigweed	<i>Amaranthus retroflexus</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Wild buckwheat	<i>Polygonum convolvulus</i>
Wild mustard	<i>Brassia kaber</i>

* Spray Kochia while in the rosette stage, less than one inch in diameter.

ANNUAL GRASS WEEDS

Annual bluegrass	<i>Poa annua</i>
Canarygrass	<i>Phalaris canariensis</i>
Green foxtail	<i>Setaria viridis</i>
Pigeon grass (Yellow foxtail)	<i>Setaria glauca</i>

See Chart 1, below, for broadcast rates. See Chart 2 for equivalent band rates.

**CHART 1
DOSAGE CHART FOR BROADCAST APPLICATION**

<u>Pints/Acre Broadcast</u>	
<u>CQ 1451</u>	
Sugar Beet Stage	
Cotyledon	2.0
2 leaf	2.5
4 leaf	3.75

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CHART 2

DOSAGE CHART FOR BAND APPLICATION

Broadcast Equivalent	Band Width	Band Rate - Row Spacing		
		22"	28"	30"
2.0 pt/A	5"	7.3 fl. oz.	5.7 fl. oz.	5.3 fl. oz.
	7"	10.2 fl. oz.	8.0 fl. oz.	7.5 fl. oz.
2.5 pt/A	5"	9.1 fl. oz.	7.1 fl. oz.	6.7 fl. oz.
	7"	12.7 fl. oz.	10.0 fl. oz.	9.3 fl. oz.
3.75 pt/A	5"	13.6 fl. oz.	10.7 fl. oz.	10.0 fl. oz.
	7"	19.1 fl. oz.	15.0 fl. oz.	14.0 fl. oz.
5.75 pt/A	5"	20.9 fl. oz.	16.4 fl. oz.	15.3 fl. oz.
	7"	29.3 fl. oz.	23.0 fl. oz.	21.5 fl. oz.



IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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NOR-AM CHEMICAL COMPANY

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