1045

Glenda Haage Platte Chemical Company P.O. Box 667 Greeley, CO 80632

SEP 2 5 1996

Dear Ms. Haage:

Subject: Revised Label To Comply With Worker Protection Standards

Clean Crop Trifluralin EC

EPA Registration No. 34704-226

Your Submission Dated March 25, 1996

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Revise the inhalation statement in the Statement of Practical Treatment to read "IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention."
- 2) We note an abbreviated version of the Statement of Practical Treatment listed under the heading "First Aid" and located directly beneath the Precautionary Statements. This abbreviated version should be deleted and replaced with a referral statement to refer users to the additional precautionary information elsewhere on the labeling.
- 3) Add the statements "Harmful if inhaled. Avoid breathing spray mist" to the Precautionary Statements.
- Please comply with the type requirements for the precautionary statement "Keep out of reach of children" as set forth in 40 CFR §156.10(h)(1)(iv).

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (7505C)

Enclosure

DK: 305-7546: FHB/Pm23 CONCURRENCES									
SYMBOL >	75056	,							
SURNAME >	DKENNY				1				
DATE >	9/20/96		**************************************						

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

PROPOSED ABEL



RIFLURALIN

with COMMENT In EPA Letter Desar SEP 25 1991

Under the Federal Importicide, Fundicide, and Hoderstelde Act

as amended, for the posterior

A selective herbicide for the pre-emergence Committee EPA Res. No ENVIRONMENTAL HAZARDS of annual grasses and broadleaf weeds in ornament. A selective herbicide is toxic to fish. For terrestrial uses, do not apply directly to tals, flowers and other areas as listed.

ACTIVE INGREDIENT:

Trifluralin (a,a,a-trifluoro-2,6-dinitro-N, N-dipropyl-p-toluidine) 44.5%

INERT INGREDIENTS 55.5% TOTAL 100.0%

Contains 4 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN **CAUTION**

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

EPA REG. NO. 34704-226

EPA EST. NO. _ NET WEIGHT ___

5378

POUNDS WPSEXP03P96

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Keep out of reach of children. Do not get in eyes. Avoid contact with skin and clothing. Harmful if swallowed or absorbed through the skin.

First Aid: in case of contact immediately flush eyes or skin with plenty of water. For eyes, call a physician.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on

the EPA chemical resistance category selection chart. Applicators and other handlers must wear:

Long-sleeved shirt and long pants, chemical-resistant gloves, such as

barrier laminate of viton, shoes plus socks.

Follow 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:

When handlers use closed systems, enclosed cable, or aircraft in a manner that meets with 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 WEST

USER SAFETY RECOMMENDATIONS

Users should:

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Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thor-

oughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thor-

oughly and change into clean clothing.

water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water for 15 minutes and get medical

If on skin: Wash contaminated skin with soap and water, Remove contaminated clothing and launder before reuse. Get medical attention. If inhaled: Move to clear atmosphere. Restore breathing if necessary. Get medical attention.

If swallowed: Do not induce vomiting and get medical attention immediately. Ingestion is toxic and irritating to the stomach. Vomiting may cause aspiration into the lungs resulting in pulmonary edema which may be fatal. Gastric lavage may be indicated.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat and open flame.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions, TRIFLURALIN EC will not harm the treated crop. Over application may result in crop injury or a soil residue.

Uneven application or improper soil incorporation can result in erratic weed control or crop injury. Plant disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop plants and increase the possibility of damage.

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, decentamination, 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 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 soll-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no centact with anything that has been treated.

PPE required for early entry to treated are as 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:

Coverails, Chemical-resistant gloves, such as barrier aminate or viton, shoes plus socks.

TRIFLURALIN EC EPA REG. NO. 34704-226

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STORAGE AND DISPOSAL

PROHIBITIONS-Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE-Avoid freezing. Do not store below temperature of (40°F.) If frozen, poor weed control may result. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can effect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL-Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsale 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—Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE (continued)
TRIFLURALIN EC is a pre-emergence herbicide for use in ornamentals for the control of annual grasses and broadleaf weeds in nursery stock, ornamental trees, ornamental woody shrubs, ornamental groundcover, gladioli, roses, established flowers and under paved surfaces

TRIFLURALIN EC is recommended for use on a wide variety of ornamental trees, ornamental groundcover, shrubs, and flowers. The ornamental species on which this herbicide can be used at recommended rates without damage include those listed.

ORNAMENTAL WOODY SHRUBS

Scientific Name **Common Name** Berberis mentorensis Barberry Berberis Thunbergii Japanese Barberry Buxus harlandii Harlandii Boxwood Buxus microphylla Boxwood Buxus sempervirens Common Boxwood Camellia japonica Camellia Camellia Sasanqua Sasanqua Camellia Cleyera japonica Şakaki Cotoneáster apiculata Cotoneaster Cotoneaster Zabelii Cotoneaster Deutzia Deutzia Elaegnus pungens Elaeagnus Euonymus alatus Euonymus Eชิดิกymus Fortunei Euonymus Euonymus newport Feijoe Sellowiana Forsythia Euonymus Pineapple Guava Forsythia (Golden Bells) Japanese Holly Holly Juniper llex crenata llex hetzi Juniperus chinensis Juniperus conferta Shore Juniper Red Cedar Juniperus virginiana Kalmia latifolia Mountain Laurel Ligustrum erectum Privet Ligustrum japonicum Privet Ligustrum odoratissimum Privet Ligustrum ovalifolium California Privet Honeysuckle Lonicera Philadelphus Lemoinei Mock-Orange Pieris japonica Fetterbush Pittosporum Tobira Robira Podocarpum macrohylla Yew Pine Potentilla Cinquefoil Prunus caroliniana American Cherry-Laurel Pyracantha Firethorn India Hawthorn Raphiolepsis indica Rhododendron indicum Azalea Rhododendron obtusum Rhododendron Salix Willow Spiraea vanhouttei Spiraea

Common Lilac

Japanese Yew

Springa vulgaris

Taxus cuspidata

Taxus media

Thuja occidentalis Viburnum odoratissimum Viburnum suspensum Viburnum tomentosum Viburnum wrightii Weigela

American Arborvitae Sweet Viburnum Sandankwa Viburnum Doublefile Viburnum Viburnum Weigela, Bristol Ruby

ROSES AND OTHER ESTABLISHED FLOWERS

Achillea Lupinus Marigold Ageratum Arctotis Morning Glory Aster Nasturtium Balsam Nicotiana Calendula Periwinkle California Poppy Petunia Calliopsis Phlox Carnation Portulaça Centaurea Rudbeckia Chrysanthemums Salvia Cosmos Scabiosa Dahlia Shasta Daisv Snapdragon Dianthus Dimortheca Stock

Snow on the mountain Forget-me-not Four O'Clocks Sunflower Gaillardia Sweet Alvssum Gladiolus Sweet pea Sweet William Ixora Lobelia Zinnia

ORNAMENTAL TREES

Scientific Name Common Name Balsam Fir Abies balsamea Norway Maple Red Maple Acer platanoides Acer rubrum Acer saccharinum Silver Maple Acer saccharum Sugar Maple Betula pendula var. laciniata European White Birch Castanea mollissima Chinese Chestnut Cercis canadensis Redbud Cornus florida Flowering Dogwood Cornus Kousa Kousa Dogwood Fraxinum americana White Ash Honey Locust Black Walnut Gleditsia triacanthos Jugians nigra Larix leptolepis Japanese Larch Liquidambar styraciflua Liriodendron tulipifera Sweetgum Tuliptree Malus sp. Apple Black Gum Nyssa sylvatica Norway Spruce White Spruce Picea Abies Picea glauca Colorado Blue Spruce Picea pungens Pinus nigra Austrian Pine Pinus resinosa Red Pine Pinus Strobus White Pine Scotch Pine Pinus sylvestris Pinus taeda Loblolly Pine Pinus Thunbergii Japanese Black Pine Platanus acerifolia London Plane-Tree Platanus occidentalis Sycamore Populus deltoides Cottonwood Prunus sp. Stone-Fruits Pseudotsuga taxifolia Douglas Fir Quercus coccinea Scarlet Oak Quercus palustris Pin Oak Quercus rubra Red Oak Robinia pseudoacacia Black Locust Taxodium distichum **Bald Cypress**

TRIFLURALIN EC Surface Applied and Water Incorporated for Preemergence Control of Annual Weeds in ESTABLISHED ORNAMENTAL GROUNDCOVER PLANTINGS

Canada Hemlock

Scientific Name Common Name Agapanthus **Dwarf Peter Pan** Armeria vulgaris Thrift-Sea Pink . Achillea tomentosa Woolly Yarlow Asparagus densiflorus Asparagus Baccaris pilularis Dwarf Coybie Brush Campanula garganica Bellflower Campanula Poscharskyana Belifiower Ceanothus Ceanothus gloriosus Cerastium tomentosum Snow-in-Suhihai, Ceratostigma plumbaginoides Bunge Cistus sp. **Rock Rose** Coreopsis sp. Tickseed Coronilla varia Crown Vetch Cotoneaster Cotoneaster

Tsuga canadensis

TRIFLURALIN EC

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Scientific Name Fragaria chiloensis

Gazania sp. Gazania sp. Gazania sp. Gazania sp.

Gazania sp. Gazania leucolaena

Gazania sangelo Hedera canariensis Hedera helix Hedera helix Herniaria glabra Hyrericum sp. Hypericum calycinum Hypericum caris Liriope Muscari

Mesembryanthemum edentulum Muehlenbeckia axillaris Myoporum sp. Myoporum laetum Osteospermum sp. Osteospermum fruticosum Rosmarinus sp.

Sedum sp. Sedum sp. Sedum consulum Sedum quatemalense Sedum musaneuse Tagetes

Teucrium Chamaedrys Verbena sp. Verbena sp. Verbena sp. Verbena sp.

Verbena peruviana Veronica sp. Zoysia tenuifolia

Common Name

Strawberry

Copper King Gazania Gold Rush Gazania New Orange Gazania Feasta Red Gazania Bronze Orange Sunrise Gazania

Gazania Gazania Algerian Ivy Needlepoint lvy

California Ivy Rupture Wort St.-John's-Wort Rose-of-Sharon St.-John's-Wort Big Blue Lilyturf Ice Plant Wire Plant Myoporum

Myoporum Trailing African Daisy Trailing African Daisy

Rosemary Utah Sedum Acre Sedum Sedum Sedum Sedum Marigold Germander Verbena

Hybrid White Verbena Hybrid Apple Blossom Verbena Special Purple Verbena

Verbena Speedwell Mascarene grass

WEEDS CONTROLLED

Annual Grasses

Crabgrasses Barnyardgrass (watergrass) Foxtails (including giant foxtail) Johnsongrass (from seed) Wild Cane (shattercane) Goosegrass Texas panicum

Stinkgrass Bromegrass Brachiaria Sandbur **Junglerice** Annual bluegrass Sprangletop

Annual Broadleaf Weeds

Pigweeds (spiny, redroot) Carelessweed

Lambsquarters Carpetweed Russian thistle

Purslane

Cheat

Florida pursiane (pusley)

Knotweed Stinging nettle Goosefoot Chickweed

Note: TRIFLURALIN EC will not control certain resistant weeds such as Cocklebur, Velvetleaf, Jimsonweed, Ragweed, Venice Mallow, and Nutgrass.

GENERAL DIRECTIONS

TRIFLURALIN EC is a pre-emergence herbicide which is incorporated (mixed) into the soil to provide long-lasting control of annual grasses and broadleaf weeds (see above list). TRIFLURALIN EC controls weeds by killing their seeds as they germinate. It does not control established weeds.

Incorporation of this product helps assure effective weed control regardless of weather conditions and permits shallow cultivation, rotary hoeing and hand hoeing without reducing its weed control activity.

MIXING AND APPLICATION DIRECTIONS

TRIFLURALIN EC is to be mixed with water and applied as a spray before, or in the same operation as soil incorporation. Apply in 5 to 40 gallons of water per acre (broadcast basis), using any properly calibrated low-pressure boom-type herbicide sprayer that will uniformly apply the spray. Pour the recommended amount of TRIFLURALIN EC for your soil type into the spray tank during the filling operation and mix thoroughly before spraying. Do not apply more than the recommended amount.

INCORPORATION DIRECTIONS

TRIFLURALINEC must be incorporated into the soil after application to prevent loss of its activity. Spraying and incorporation should be done in the same operation, if possible. Incorporation may be delayed up to 4 hours after application. Variable weed control may result from delayed incorporation if this product is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher.

The machinery used for incorporation should break up large clods and mix the herbicide thoroughly with the soil. The more thoroughly the herbicide is mixed with the soil, the more consistent the weed control will

Apply and incorporate TRIFLURALIN EC prior to planting new nursery stock liners, ornamentals, trees and woody shrubs, and gladioli (Gladioli corms less than 1 inch in diameter may be injured by pre-plant applications of TRIFLURALIN EC). TRIFLURALIN EC may also be applied to established plantings by using a directed spray to the soil between the rows and beneath the plants.

Water incorporation is used for established Ornamental Groundcovers. (See specific directions elsewhere on this label.)

Broadcast (overall) Application Rates for Soil Incorporation Only:

Coarse Soils	Medium Soils	Fine Soils		
Sand and sandy loam	Loam, silt loam and silt	Clay loam, silty clay and clay		
1 pint per acre (1/2 pound active)	1 ¹ / ₂ pints per acre (³ / ₄ pound active)	2 pints per acre (1 pound active)		

For band applications, use the following formula to figure the proportionate amount:

band width in inches x recommended row width in inches broadcast rate

amount to apply per acre on band

TRIFLURALIN EC is not recommended on muck soils.

Incorporation before planting (pre-plant): Thorough incorporation may be achieved with the following: P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil: double disc (or double disc with spiketooth harrow in tandem) set to cut 3 to 4 inches deep and operated in two different directions (cross disced) at 4 to 6 mph.: mulch treader and other similar disc-type implements set to cut 3 to 4 inches deep and operated twice at 5 to 8 mph.: rolling cultivators set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph.: or a bed conditioner (Do-All) set to cut 2 to 4 inches deep and operated at 4 to 6 mph.

Incorporation after planting (post-plant): Incorporation may be achieved around established plants by using P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil; or rolling cultivators set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph. When incorporating TRIFLURALIN EC in transplants, new liners, or established plants, the implement should be adjusted so that treated soils is thrown toward and around the plants in the row.

Clean cultivate area to be treated before application since TRIFLURALIN EC will not control established weeds.

Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control. Do not use spiketooth or springtooth harrows alone for incorporation.

Surface Application and Water Incorporation to Ornamental **Groundcover Plantings:**

Add TRIFLURALIN EC to clean water in the spray tank during the filling operation. Agitate thoroughly prior to spraying. Apply in 5 to 40 gallons of water per acre using any properly calibrated low pressure herbicide sprayer that will uniformly apply the spray mixture. A one-half inch rain or its equivalent in sprinkler irrigation must be received within 24 hours or poor weed control will result.

Application Rate—Groundcovers Only: Apply 1 gallon of TRIFLURA-LIN EC per acre or 3 fluid ounces per 1,000 sq. ft. of groundcover area. CHEMIGATION:

Refer to supplemental labeling entitled "APPLICATION THROUGH IR-" RIGATION SYSTEMS—CHEMIGATION" for use directions for chamign-tion. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed:

Under Paved Surfacés:

Directions For Use and Site Preparation: TRIFLUAALIN EC should be used only where the area to be treated has been prepared according to , good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with a grader blade to a depth sufficient to insure their complete

Applications should be made only when final grade is established only after additions of base rock. Do not move soils following TRIFLURALIN EC application and do not apply this herbicide to areas where as rhalt 's to be layed directly on top of soil.

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Paving should follow TRIFLURALIN EC as soon as possible.

Application Directions: Large Areas: Apply TRIFLURALIN EC in sufficient water to insure thorough wetting of the soil surface or penetration of the spray solution through the base rock layer. A minimum of 150 gallons per acre is recommended. Apply with any sprayer that will apply the spray uniformly. Add the recommended amount of herbicide to clean water in the spray tank during the filling operation. Agitate before spray-

Small Areas: For treating small areas, a tank type hand sprayer or sprinkling can may be used. Before application determine the amount of water and TRIFLURALIN EC necessary to uniformly cover the area to be treated. Shake or stir the spray solution prior to application.

Application Rate-Under Paved Surfaces Only: apply 3to 4 gallons of TRIFLURALIN EC per acre or 9 to 12 fluid ounces per 1,000 sq. ft.

NOTICE OF WARRANTY
PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE
CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REA-CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. 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 WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BECAUSE THE CONTROL OF PLATTE IN NO CASE SHALL PLATTE BE YOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FIT-NESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

FORMULATED FOR PLATTE CHEMICAL CO. FREMONT, NEBRASKA 68025-5697 150 SO. MAIN STREET