

Product Number
2070

SUPPLEMENTAL LABELING
EPA Reg. No. 359-564

BUCTRIL[®] HERBICIDE

RHÔNE-POULENC

ACCEPTED

APR 23 1984

Crop: Field and Silage Corn

Target Pest: Refer to the package label for susceptible weed species.

Tank Mixes for Use on Field and Silage Corn

BUCTRIL can be applied to field corn in tank mixture with atrazine and 2,4-D to broaden the spectrum of weed control and additional residual effect

TO ASSURE MAXIMUM SAFETY AND BEST RESULTS FOLLOW ALL CAUTIONS AND LIMITATIONS ON THIS LABEL AND THE LABELS OF PRODUCTS USED IN TANK MIXTURES WITH BUCTRIL. Apply tank mixtures in sufficient gallonage to assure good coverage of the weeds. For ground application use a minimum of 20 gallons of water per acre using flat fan nozzles with a minimum of 30 psi at the nozzle tips

Mixing Instructions for Tank Mixtures:

Fill tank one-half to three-quarters full with clean water and start agitation

If tank mixing with atrazine, add atrazine to the tank first while agitating, add BUCTRIL to the tank, then complete filling the tank with water while agitating

If tank mixing with 2,4-D, add BUCTRIL to the tank first while agitating, add 2,4-D to the tank, then complete filling the tank with water while agitating

Allow mixture to agitate and recycle for at least 5 minutes before spraying

Agitation must be continued until spraying is complete

Do not add any spray additives to the tank mixtures

PRODUCT	RATE	TIMING OF APPLICATION	
		CROP	WEEDS
BUCTRIL + atrazine	1 pt/A + 1/2 - 1 1/2 lb ai/A	Apply to field corn between the 2 and 8 leaf stage	Apply to susceptible weeds before they are 6" tall or 3" in diameter if rosette
	1 1/2 pt/A + 1/2 - 1 1/2 lb ai/A	Apply to field corn between the 4 and 8 leaf stage	Apply to less susceptible weeds before they are 4" tall or 1.5" in diameter if rosette
BUCTRIL + 2,4-D	1 pt/A + 1/2 - 1 1/2 lb ai/A	Apply to field corn between the 2 and 8 leaf stage	Apply to susceptible weeds before they are 6" tall or 3" in diameter if rosette
	1 1/2 pt/A + 1/2 - 1 1/2 lb ai/A	Apply to field corn between the 4 and 8 leaf stage	Apply to less susceptible weeds before they are 4" tall or 1.5" in diameter if rosette

This labeling must be in the possession of the user at the time of pesticide application

All applicable directions, restrictions, and precautions on the EPA-registered label are to be followed.

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Proposed Label

BUCTRIL HERBICIDE

Active Ingredient:

Octanoic acid ester of bromoxynil*(3,5-dibromo-4-hydroxybenzonitrile).....33.8%
Inert Ingredients.....66.2%
*Bromoxynil octanoate equivalent to 23.2% of bromoxynil or not less than 2.0 pounds of bromoxynil per gallon.

Keep Out of Reach of Children
CAUTION
Statement of Practical Treatment

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush with water for 15 minutes. Get medical attention.

See Side Panel for Additional Precautionary Statements

EPA Reg. No. 359-564
EPA Est. No.
0384

ACCEPTED
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564

Net Contents
Gallons
Liters

Manufactured By
Rhone-Poulenc Inc.
Agrochemical Division
Monmouth Junction, NJ 08852

**Precautionary Statements
Hazards to Humans and Domestic Animals
Warning**

Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Environmental Hazards:

This pesticide is toxic to wildlife and fish. Use with care when applying to areas frequented by wildlife or adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from the target areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Physical and Chemical Hazards:

Do not use or store near heat or open flame.

Directions for Use

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

Storage and Disposal

Storage:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not store near fertilizers or seeds. Store at temperatures above 3°F. If allowed to freeze remix before using.

Pesticide Disposal:

Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State, or local procedures.

Container Disposal:

Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

General Information

Buctril is a contact postemergence herbicide. Therefore the weeds must be thoroughly covered with the spray for effective control. Buctril is primarily active against broadleaf weeds. Do not apply when plants are stressed from lack of moisture. Avoid drift onto neighboring crops and pastures.

Buctril Controls These Weeds in the Seedling Stage

Susceptible Broadleaf Weed Species:

Annual sowthistle (Sonchus oleraceus)
Black nightshade (Solanum nigrum)
Blue mustard (Chorispora tenella)
Common cocklebur (Xanthium pensylvanicum)
Common lambsquarters (Chenopodium album)
Common tarweed (Hemizonia congesta)
Corn gromwell (Lithospermum arvense)
Eastern black nightshade (Solanum ptycanthum)
Fiddleneck spp. (Amsinckia intermedia)
Field pennycress (Thlaspi arvense)
Green smartweed (Polygonum scabrum)
Hairy nightshade (Solanum sarachoides)
Jimsonweed (Datura stramonium)
Ladysthumb (Polygonum persicaria)
Pennsylvania smartweed (Polygonum pensylvanicum)
Pepperweed spp. (annual) (Lepidium spp.)
Shepherdspurse (Capsella bursa-pastoris)
Silverleaf nightshade (Solanum elaeagnifolium)
Tartary buckwheat (Fagopyrum tataricum)
Volunteer sunflower (Helianthus annuus)
Wild buckwheat (Polygonum convolvulus)

Less Susceptible Broadleaf Weed Species:

- Common groundsel (Senecio vulgaris)
- Common ragweed (Ambrosia artemisiifolia)
- Corn chamomile (Anthemis arvensis)
- Cow cockle (Saponaria vaccaria)
- Giant ragweed (Ambrosia trifida)
- Ivyleaf morningglory (Ipomoea hederacea)
- Knawel (Scleranthus annuus)
- Kochia (Kochia scoparia)
- London Rocket (Sisymbrium irio)
- Mayweed (Anthemis cotula)
- Prostrate knotweed (Polygonum aviculare)
- *Redroot pigweed (Amaranthus retroflexus)
- Russian thistle (Salsola kali)
- *Spiny pigweed (Amaranthus spinosus)
- Tall morningglory (Ipomoea hederacea)
- *Tall waterhemp (Amaranthus tuberculatus)
- Tumble mustard (Sisymbrium altissimum)
- Velvetleaf (Abutilon theophrasti)
- *Wild mustard (Brassica kaber)
- Wild radish (Raphanus raphanistrum)

*For control of pigweed species and wild mustard, applications should be made no later than 4 inches tall or the 4th leaf stage, whichever comes first.

Top Growth Suppression:

Buctril suppresses the growth of Canada thistle (Cirsium arvense) by burning down the leaves. Regrowth can be expected.

WHEAT, BARLEY, OATS AND RYE

Buctril can be applied to small grains from emergence up to the boot stage. Spray weeds soon after emergence for good weed control and to prevent competition to the crop. Do not apply when plants are stressed from lack of moisture. Avoid spray drift onto neighboring crops and pastures. Do not graze treated fields for 30 days following application.

Buctril can be applied to small grains in a tank mixture with Avenge®, 2,4-D, Hoelon®, Glean® or MCPA to broaden the spectrum of weed control. In order to assure maximum safety and weed control follow all cautions and limitations on this label and the labels of products used in tank mixtures with Buctril.

Apply Buctril alone or in tank mixtures in sufficient gallonage to assure good coverage of the weeds. For ground application use a minimum of 10 gallons of water per acre using flat fan nozzles with a minimum of 30 p.s.i. at the nozzle tips. For aerial application use a minimum of 5 gallons of total spray per acre, the swath width is not to exceed the spray boom width.

Mixing Instructions for Tank Mixtures:

Fill tank one-half to three quarters full with clean water and start agitation. If tank mixing with Glean, add Glean to the tank first while agitating; add Buctril to the tank; then complete filling the tank with water while agitating. If tank mixing with Avenge, 2,4-D, Hoelon or MCPA, add Buctril to the tank first while agitating, add the other herbicide to the tank; then complete filling the tank with water while agitating. Allow mixture to agitate and recycle for at least 5 minutes before spraying. Agitation must be continued until spraying is complete.

Buctril can also be combined with sprayable fluid fertilizers. However, predetermine the compatibility with the fluid fertilizer by mixing small proportional quantities in advance. Agitation must be maintained during filling and application operations to assure the Buctril is evenly mixed with the fluid fertilizer.

Buctril may be applied through automated sprinkler irrigation systems to wheat and barley, at the rate, crop and weed stage of growth indicated below in the table. The lower rate of 1.5 pints per acre for susceptible weeds should be applied in less than 0.2 acre inches of water; the higher rate of 2.0 pints per acre should be used for the less susceptible weeds or if applying with up to 0.5 acre inches of water. This method of application is restricted from use in California.

PRODUCT	RATE	TIMING OF APPLICATION	
		CROP	WEEDS
Buctril	1 1/2-2 pts/A	Apply to wheat, barley, oats or rye from emergence to boot stage.	<p>Susceptible broadleaf weeds: apply before they are 4" tall or 2" in diameter, if rosette.</p> <p>Less susceptible broadleaf weeds: apply before they are 2" tall or 1" in diameter, if rosette.</p>
Buctril + Avenge	1-2 pts/A + 2 1/2-4pts/A (1,2)	Apply to barley with approximately 2 to 7 leaves; spring wheat with approximately 5 to 6 leaves and winter wheat between 4 leaves and tillered. Application should be made before crop has reached boot stage.	<p>Wild Oats: apply when they are in the 3 to 5 leaf stage.</p> <p>Susceptible broadleaf weeds: apply before they are 4" tall or 2" in diameter, if rosette.</p> <p>Less susceptible broadleaf weeds: apply before they are 2" tall of 1" in diameter, if rosette.</p>
Buctril + 2,4-D	1-2 pts/A + 1/4-1/2lbai/A (1,3)	Apply to wheat, barley, oats or rye after the crop has tillered and before the forming of joints in the stem.	Apply when the broadleaf weeds are less than 4" tall or 2" in diameter, if rosette.
Buctril + Glean	3/4-1 1/2 pts. + /A 1/8-1/3 oz/A (1,4)	Apply to wheat and barley after the crop has reached the 2 to 3 leaf stage but before the boot stage.	<p>Susceptible broadleaf weeds: apply before they are 4" tall or 2" in diameter, if rosette.</p> <p>Less susceptible broadleaf weeds: apply before they are 2" tall or 1" in diameter, is rosette.</p>

PRODUCT	RATE	TIMING OF APPLICATION	
		CROP	WEEDS
Buctril + Hoelon	1-2 pts/A + 2-3 1/3 pts/A (1,5)	Apply to wheat and barley up to the jointing stage of growth.	Annual grasses: apply when they are in the 1-3 leaf stage (up to 4 leaf stage in wheat only). Susceptible broadleaf weeds: apply before they are 4" tall or 2" in diameter, if rosette. Less susceptible broadleaf weeds: apply before they are 2" tall or 1" in diameter, if rosette.
Buctril + MCPA	1-2 pts/A + 1/4-1/2lbai/A (1,6)	Apply to wheat, barley, oats or rye after the crop has reached the 3 to 4 leaf stage and before it has reached the boot stage.	Susceptible broadleaf weeds: apply before they are 4" tall or 2" in diameter, if rosette. Less susceptible broadleaf weeds: apply before they are 2" tall or 1" in diameter, if rosette.

(1) Use the lower rate of Buctril on broadleaf weed species listed as susceptible. The higher rate is needed when the weed infestation is heavy or for the control of less susceptible weeds. In this last instance, it is important, for effective control, to treat before the weeds have reached the indicated size.

(2) See Avenge label for varietal restrictions and to determine appropriate rate of application in relation to wild oat density.

(3) A tank mix application of Buctril and 2,4-D broadens the spectrum of weed control. See 2,4-D label for listing of additional susceptible weed species.

(4) See Glean label for crop rotation instructions.

(5) See Hoelon label to determine appropriate rate of application in relation to annual grassy weed stage of growth.

(6) A tank mix application of Buctril and MCPA broadens the spectrum of weed control. See MCPA label for listing of additional susceptible weed species.

Avenge, registered trademark of American Cyanamid Co.

Glean 75DF, registered trademark of E. I. duPont de Nemours & Co., Inc.

Hoelon 3 EC, registered trademark of Hoechst Ag.

Field and Silage Corn

Buctril can be applied to field and silage corn, postemergent, for the selective control of the above listed weeds under conventional, minimum or no tillage systems. The recommendations for use are:

PRODUCT	RATE	TIMING OF APPLICATION	
		CROP	WEEDS
Buctril	1 pt/A	2-8 leaf	Apply to susceptible weeds before they are 6" tall or 3" in diameter, if rosette.
	1 1/2 pt/A	4-8 leaf	Apply to less susceptible weeds before they are 4" tall or 1.5" in diameter, if rosette.

It is important, for effective control, to treat corn before the weeds have reached the indicated size.

Apply Buctril in sufficient gallonage to assure good coverage of the weeds. For ground application use flat fan nozzles with a minimum of 20 gallons of solution per acre, and a minimum of 30 p.s.i. at the nozzle tips. Under conditions of heavy weed infestations, the use of higher spray gallonage and pressure will improve coverage needed to obtain control. For aerial application use a minimum of 5 gallons of total spray per acre, the swath width is not to exceed the spray boom width.

Under certain conditions, particularly cool and cloudy days, temporary leaf scorching may be observed on the corn, but it will disappear rapidly.

Buctril does not control grasses. Therefore, it is recommended that a suitable grass herbicide be applied to provide any required grass control.

Do not add any spray additive, or mix with liquid fertilizers, for crop injury may occur.

Do not plant rotational crops until following use season.

Seed corn producers must verify with their suppliers the selectivity of Buctril on inbred lines to avoid potential injury.

Tank Mixes for Use on Field Corn

Buctril can be applied to field corn in tank mixture with atrazine and 2,4-D to broaden the spectrum of weed control and additional residual effect.

To assure maximum safety and best results follow all cautions and limitations on this label and the labels of products used in tank mixtures with Buctril. Apply tank mixtures in sufficient gallonage to assure good coverage of the weeds. For ground application use a minimum of 20 gallons of water per acre using flat fan nozzles with a minimum of 30 psi at the nozzle tips. For aerial application use a minimum of 5 gallons of water per acre.

Mixing Instructions for Tank Mixtures:

Fill tank one-half to three-quarters full with clean water and start agitation.

If tank mixing with atrazine, add atrazine to the tank first while agitating; add Buctril to the tank; then complete filling the tank with water while agitating.

If tank mixing with 2,4-D, add Buctril to the tank first while agitating, add 2,4-D to the tank; then complete filling the tank with water while agitating.

Allow mixture to agitate and recycle for at least 5 minutes before spraying.

Agitation must be continued until spraying is complete.

Do not add any spray additives to the tank mixtures.

PRODUCT	RATE	TIMING OF APPLICATION	
		CROP	WEEDS
Buctril + atrazine	1 pt/A + 1/2-1 1/5lbai/A	Apply to field corn between the 2 and 8 leaf stage.	Apply to susceptible weeds before they are 6" tall or 3" in diameter if rosette.
	1 1/2pt/A + 1/2-1 1/5lbai/A	Apply to field corn between the 4 and 8 leaf stage.	Apply to less susceptible weeds before they are 4" tall or 1.5" in diameter if rosette.
Buctril + 2,4-D	1 pt/A + 1/4-1/2lbai/A	Apply to field corn between the 2 and 8 leaf stage.	Apply to susceptible weeds before they are 6" tall or 3" in diameter if rosette.
	1 1/2 pt/A + 1/4-1/2lbai/A	Apply to field corn between the 4 and 8 leaf stage.	Apply to less susceptible weeds before they are 4" tall or 1.5" in diameter if rosette.

FLAX

Buctril can be applied to flax when it is 2 to 8 inches tall either alone or in a tank mix with Hoelon. Do not treat flax during or after the bud stage. Apply to weeds not past the 3 to 4 leaf stage. If weeds form rosettes, apply before the rosettes are 1 1/2 inches across. When using Buctril alone apply 1 pint per acre to control the susceptible weed species and 1 1/2 pints per acre to control the less susceptible weed species. When Buctril is tankmixed with Hoelon use the same rates of Buctril with 2 to 3 1/3 pints per acre of Hoelon. Follow the label recommendations for individual products. It is important that the weeds are sprayed soon after they have emerged, and before they become shaded by the crop.

Apply Buctril in sufficient gallonage to assure good coverage of the weeds. For ground application use a minimum of 10 gallons of water per acre using flat fan nozzles with a minimum of 30 psi at the nozzle tips. For aerial application use a minimum of 5 gallons of total spray per acre. Do not treat flax in humid weather or when the temperature is over 85°F.

Mixing Instructions for Tank Mixtures:

Fill tank one-half full with clean water and start agitation. Add the Buctril to the tank first while agitating; add the Hoelon to the tank; then complete filling the tank with water while agitating. Allow mixture to agitate and cycle for at least 5 minutes before spraying. Agitation must be continued until spraying is complete.

GARLIC

Buctril can be applied as a broadcast treatment after the crop emerges but before the crop reaches the 12 inch stage. Use 2 pints per acre for susceptible weed species and 4 pints per acre for the less susceptible weed species.

Apply Buctril as a water mix spray in sufficient gallonage to assure adequate coverage. Use approximately 40 to 100 gallons of water per acre for ground applications and a minimum of 5 gallons of water per acre for aerial applications. Good coverage of the weeds is essential.

Do not apply within 112 days of anticipated harvest.

ESTABLISHED TURFGRASSES AND NEWLY PLANTED GRASSES
FOR SOD OR SEED PRODUCTION

Buctril is a contact herbicide which controls many broadleaved weeds. It can be safely be applied to established bentgrasses, Kentucky bluegrass, fescues, ryegrass, bermudagrass and St. Augustinegrass. Buctril may also be used on seedling grasses such as Merion, Park, Delta or common Kentucky bluegrasses, Pennlawn, Chewings, Illahee or Alta Fescues, orchard grass, Highland, Seaside or Astoria Bentgrasses, perennial ryegrasses planted for seed or sod production or forage grasses planted for seed production purposes only.

Apply Buctril to actively growing, seedling broadleaved weeds according to the following recommendations:

SEEDLING AND ESTABLISHED TURF:

PRODUCT	RATE lbai/A	WEED SPECIES
Buctril	3/8-1/2 (1 1/2-2pt/A)	See General Weed List

ESTABLISHED TURF ONLY; EXCLUDING BENTGRASS PUTTING GREENS:

PRODUCT	RATE lbai/A	WEED SPECIES
Buctril	1.0(4 pt/A)	As previously listed for Buctril plus the following: Spurweed (<u>Soliva</u> spp.) Yellow Woodsorrel (<u>Oxalis</u> spp.) ^{1/}
	2.0(8pt/A)	As previously listed for Buctril plus the following: Prostrate Spurge (<u>Euphorbia supina</u>)

BUCTRIL TANK MIXES

ESTABLISHED TURF ONLY; EXCLUDING BENTGRASSES

PRODUCT	RATE lbai/A	WEED SPECIES
Buctril + MCP	1/2-1.0 + 1.0	As previously listed for Buctril plus the following: Common Chickweed (<u>Stellaria media</u>) Mouseear Chickweed (<u>Cerastium vulgatum</u>) Red Clover (<u>Trifolium pratense</u>) White Clover (<u>Trifolium repens</u>) Ground Ivy (<u>Glechoma hederacea</u>) Stitchwort (<u>Stellaria graminea</u>) Knotweed (<u>Polygonum aviculare</u>) Prostrate Spurge (<u>Euphorbia supina</u>)

PRODUCT	RATE lbai/A	WEED SPECIES
Buctril + Dicamba	1/2 + 1/4-1/2	As previously listed for Buctril plus the following: Common Chickweed (<u>Stellaria media</u>) Mouseear Chickweed (<u>Cerastium vulgatum</u>) Red Clover (<u>Trifolium pratense</u>) White Clover (<u>Trifolium repens</u>) Knotweed (<u>Polygonum aviculare</u>) Red Sorrel (<u>Rumex acetosella</u>) Pepperweed (<u>Lepidium spp.</u>)
	1.0 + 1/4-1/2	As previously listed for Buctril plus the following: Prostrate Spurge (<u>Euphorbia supina</u>) Yellow Woodsorrel (<u>Oxalis spp.</u>) Spurweed (<u>Soliva spp.</u>)
Buctril + MCPP + Dicamba	1/2+1/2-1.0 + 1/8-1/4	As previously listed for Buctril combina- tions plus the following: Plantains (<u>Plantago spp.</u>) Dandelion (<u>Taraxacum officinale</u>)
	1.0+1/2-1.0 + 1/8-1/4	As previously listed for Buctril combina- tions plus the following: Prostrate Spurge (<u>Euphorbia supina</u>) Spurweed (<u>Soliva spp.</u>)
Buctril + 2,4-D + MCPP ^{3/}	1/2+1/2-1.0 +1/2-1.0	As previously listed for Buctril combina- tions plus the following: Plantains (<u>Plantago spp.</u>) Knotweed (<u>Polygonum aviculare</u>) Dandelion (<u>Taraxacum officinale</u>) Red Sorrel (<u>Rumex acetosella</u>) ^{2/}

^{1/} Except in California.

^{2/} Use high rate of MCPP or 2,4-D as expressed in lbai/A.

^{3/} Including prepackaged mixtures such as Chipco Turf Klean.

A second application of Buctril alone 2 weeks after the initial treatment may be needed to get complete control of established prostrate spurge or yellow woodsorrel.

Do not apply to cool season grasses when the air temperature is above 80° F.

In order to assure maximum safety and weed control follow all cautions and limitations on this label and the labels of products used in tank mixes with Bucril.

INDUSTRIAL SITES AND NONCROP AREAS

FOR BROADCAST TREATMENT OF SMALL WEEDS:

Apply 2 quarts of Bucril with either 2 quarts of surfactant or 2 gallons of diesel oil in 150 gallons of water for each acre sprayed. Thorough coverage is important. Make sure spray boom is high enough to contact tops of all plants. Use adequate spray pressure to contact all leaf surfaces.

FOR SPOT TREATMENT OF SCATTERED INFESTATIONS OR LARGE WEEDS ALONG FENCEROWS IN VACANT LOTS AND ON INDUSTRIAL SITES:

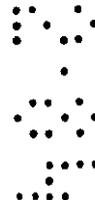
Mix 1 quart of Bucril with either 1 quart of surfactant or 1 gallon of diesel oil per 100 gallons of spray solution. Cover all the weed foliage thoroughly. Use at least 200 gallons of spray solution for each acre sprayed.

When using oil, add Bucril to oil-then add water to this mixture while agitating vigorously.

CONTROLS THESE WEEDS IN THE SEEDLING STAGE:

In the Southwestern United States, Bucril effectively controls Russian thistle (Salsola kali), Saltbush (Atriplex spp.), Marestalk (Conyza canadensis), Puncturevine (Tribulus terrestris), Prostrate Spurge (Euphorbia supina) and Bassia (Bassia spp.).

Bucril should be applied in early summer when Russian thistle is immature and growing vigorously. Best results are obtained when temperatures are 80° F or higher.



Local conditions may affect the use of this chemical. Consult State Agricultural Extension or Experiment Station weed specialists for specific recommendations for local weed problems.

CONDITIONS OF SALE, WARRANTY, LIMITATION OF LIABILITY

This product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of Rhone-Poulenc or the seller. Buyer assumes all risks of use, storage, or handling of this material, not in strict accordance with directions given herewith. In no case shall Rhone-Poulenc or the seller be liable for consequential, special, or indirect damages such as loss of profits or values resulting from the use or handling of this product.

