

Barricade

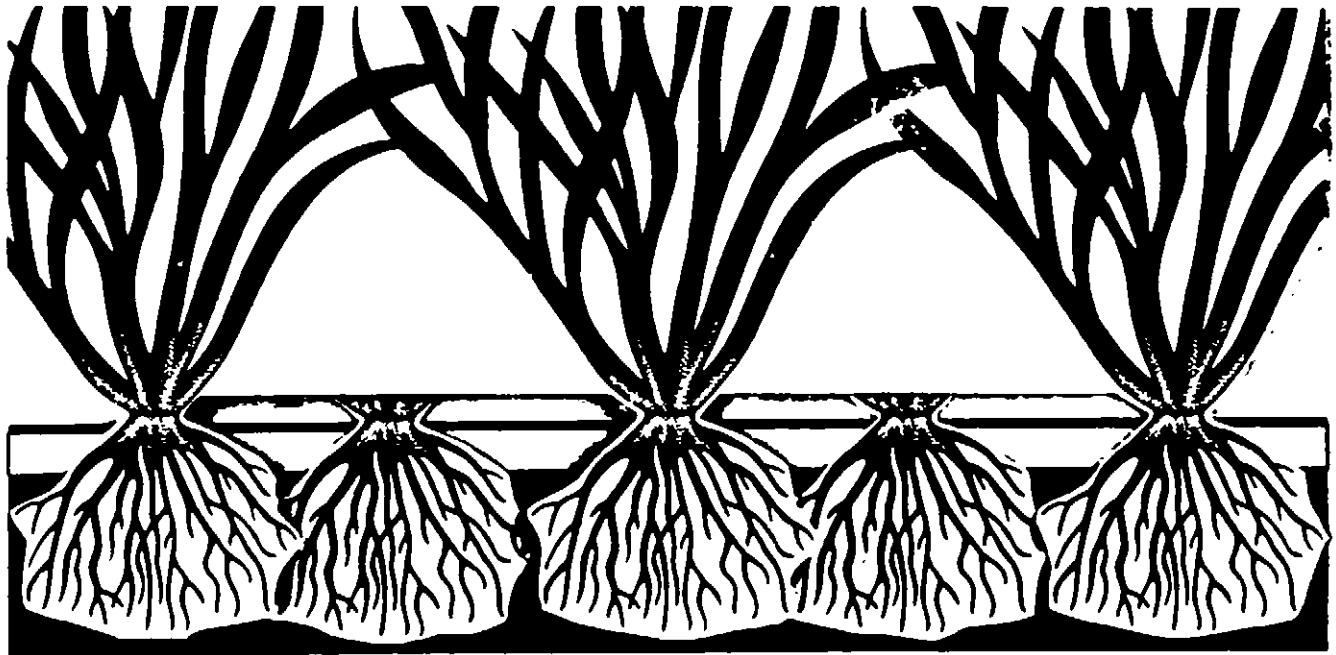
65WG

**Herbicide
in Water Soluble Packs**

REPLACED
In Accordance with FR Notice 82-2,
Based on Draft Labeling Dated
21 APR 1992

Active Ingredient:
 Proflaminate [N³,N³-Dipropyl-2,
 4-dinitro-6-(trifluoromethyl)-
 m-phenylenediamine] . . . 65.0%
Inert Ingredients: . . . 35.0%
 Total . . . 100%

EPA Reg. No. 55947-143
EPA Est. No. 33967-TU-01



KEEP OUT OF REACH OF CHILDREN
CAUTION
 SEE SIDE PANEL FOR ADDITIONAL
 PRECAUTIONARY STATEMENTS

NET WEIGHT 5 LBS.
 (Contains 10 x 1/2 lb.
 water soluble packs)


65 WG

Herbicide
In Water Soluble Packs

For complete directions for
use, see supplemental
booklet attached to
bottom of container.
Individual packs not
to be sold separately.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC
ANIMALS—CAUTION

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals. During mixing and loading of concentrate material wear chemical resistant gloves. Wash non-disposable gloves thoroughly with soap and water before removing.

First Aid- *If on skin: Wash with soap and water. Rinse thoroughly. If inhaled: Remove to clear air. If in eyes: Flush thoroughly with water for several minutes. Contact a physician if irritation persists.*

ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. 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 aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

Refer to Directions For Use Booklet
Attached to Bottom of Bag.

DIRECTIONS FOR USE

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

Refer to the Directions For Use booklet attached to the container for proper use directions and additional precautionary statements. Apply this product only as directed in the attached label booklet. For additional copies of the Directions For Use booklet, write the manufacturer.

Do not apply this product through any type of irrigation system.

Do not apply aerially.

STORAGE AND DISPOSAL

Prohibitions: *Do not contaminate water, food or feed by storage or disposal.*

Storage: *Store in original container away from fertilizer, feed, or foodstuffs and separated from other pesticides.*

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: *Paper bags and boxes-Completely empty bag or box into application equipment. Then dispose of empty bag or box in a sanitary landfill or at an incineration facility; or, if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.*

LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

Notice: Read this Limitation of Warranty and Limitation of Liability before buying or using the product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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 beyond the control of Sandoz or seller. All such risks shall be assumed by buyer or user.

Sandoz warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, under normal use conditions, subject to the risks described above. SANDOZ MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no event shall Sandoz or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product.

Sandoz and seller offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.

MADE IN USA

7910065-00-AB



SANDOZ

SANDOZ AGRO, INC.

1300 EAST TOUHY AVENUE, DES PLAINES, ILLINOIS 60018

BEST AVAILABLE COPY

△ SANDOZ
Barricade!

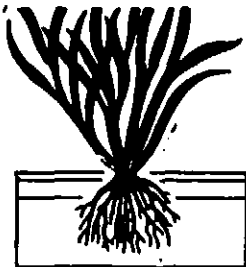
65WG

Herbicide
In Water Soluble Packs

DIRECTIONS FOR USE:
IT IS A VIOLATION OF FEDERAL
LAW TO USE THIS PRODUCT IN
A MANNER INCONSISTENT
WITH ITS LABELING.

EPA Reg No. 53947-143

BARRICADE 65WG is a
registered trademark of
Sandoz Ltd.
© 1997 SANDOZ
AGRO, INC.
770065-40-AB



PROSPER WITH PESTICIDES BY USING THEM PROPERLY! READ
AND FOLLOW LABEL DIRECTIONS.

NOTICE: READ "LIMITATION OF WARRANTY AND LIMITATION
OF LIABILITY" ON THE CONTAINER BEFORE BUYING OR
USING. IF TERMS ARE NOT ACCEPTABLE, RETURN AT ONCE
UNOPENED.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT
THE TIME OF THE PESTICIDE APPLICATION.



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals. During mixing and loading of concentrate material wear chemical resistant gloves. Wash non-disposable gloves thoroughly with soap and water before removing.

First Aid

- **If on skin:** Wash with soap and water. Rinse thoroughly.
- **If inhaled:** Remove to clear air.
- **If in eyes:** Flush thoroughly with water for several minutes. Contact a physician if irritation persists.

ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. 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 aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR

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

Do not remove water soluble packs from the container except for immediate use.

BARRICADE 65WG is a herbicide that provides residual control of broadleaf weeds in turf. BARRICADE 65WG controls weeds by inhibiting weed seeds germination. For most effective weed control, BARRICADE 65WG must be incorporated into the soil by irrigation or shallow mechanical cultivation. Application should take place as soon as possible after the date of application and should not be later than 30 days from the date of application.

All applicable directions, restrictions, and precautions on the labels of EPA registered products must be followed.

Do not apply this product through an irrigation system.

Do not apply aerially.

Mixing and Application

Apply BARRICADE 65WG in a minimum of 100 gallons of carrier per treated acre (1/2 inch of carrier). Use coarsest, low pressure spray nozzles. A broadcast application designed for herbicide or insecticide will provide the best results. Seal the container to provide complete coverage.

A spray colorant may be used with BARRICADE 65WG to improve visibility by minimizing swath skips on

BEST AVAILABLE COPY

BARRICADE 6SWG can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is used, a compatibility test should be made prior to mixing (see **Compatibility Test** in this section for instructions).

Thorough mixing of BARRICADE 6SWG in the spray tank is essential for uniform application. Fill the spray tank half full with clean water or fluid fertilizer, then add the desired number of water soluble bags of BARRICADE 6SWG into the tank (do not remove any BARRICADE 6SWG from the water soluble bag since the bag will dissolve in the tank). Maintain sufficient agitation to completely dissolve the bags and suspend the contents.

- If water is used as the carrier, water soluble bags of BARRICADE 6SWG herbicide can be added directly into the tank.
- If fluid fertilizer is used as the carrier, first form a slurry by mixing water soluble bags of BARRICADE 6SWG with at least 2 parts clean water in a separate container. Pour the slurry into the spray tank while maintaining agitation.

Add the rest of the water or fluid fertilizer to obtain the final spray volume. Maintain vigorous agitation in the spray tank before and during the application. This will ensure a well mixed spray suspension.

Thoroughly clean the sprayer after use by flushing the system with water containing a detergent. Do not allow spray suspension to dry in the tank.

Mixing Order for Tank Mixtures

When mixing BARRICADE 6SWG with other components (carrier and pesticide products) add the products to the spray tank in the following order:

1. Water dispersible granules (WG formulations) and wettable powders (WP formulations). Wettable powders should be premixed with a small amount of water to form a slurry before addition; water dispersible granules can be added directly during filling. Allow the product to disperse completely before other products are added.
2. Flowable liquids (FL or SC).
3. Emulsifiable concentrates (EC).
4. Surfactants approved for application to turf or landscapes. Check surfactant label before use.

Compatibility Test

Before mixing BARRICADE 6SWG with other pesticides in the spray tank, test its compatibility by mixing all components (carrier and pesticide products) in a small container in proportionate quantities (see following table).

Amount of Component to Add to One Pint of Spray Carrier (Assuming Volume is 25 Gallons per Acre)

COMPONENT FORMULATIONS	RATE PER		LEVEL TEASPOONS
	ACRE	1000 FT ²	
Dry	1.0 lb	0.4 oz	1.5
Liquid	1.0 pt	0.4 oz	0.5

If components do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Incompatibility in any of the above forms will usually occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above compatibility test with commercially available compatibility agents until a suitable compatibility agent is identified.

ESTABLISHED TURF

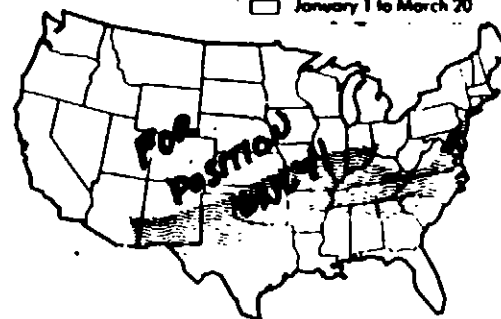
BARRICADE 6SWG is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established grass turf. The species of turf grass determines the maximum amount of this product that may be applied during a year.

Most effective weed control in turf grasses will be obtained when BARRICADE 6SWG is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed seed germination. See the map below for approximate crabgrass seed germination dates.

CRABGRASS SEED GERMINATION DATES

Approximate Date

- After May 30
- After May 10
- After April 20
- After March 20
- January 1 to March 20



BEST AVAILABLE COPY

5
20
8

USE PRECAUTIONS

The following use precautions apply to the use of BARRICADE 65WG in turf grasses:

- Application of BARRICADE 65WG may thin emerged annual bluegrass and newly over-seeder grasses.
- Do not apply to fall seeded turf treated the following spring until after the second mowing.
- Do not apply to spring seeded turf or newly set sod until the following year.
- Application of BARRICADE 65WG to turf stressed by drought, low fertility, or pest damage may result in turf injury.
- Disturbing the herbicide barrier with cultural practices such as aerifying or diking may result in reduced weed control.
- Do not apply BARRICADE 65WG to tees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

Rates and Timings

BARRICADE 65WG may be applied as a single application or as a sequential application to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds.

Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by BARRICADE 65WG is related to the rate applied.

7

APPLY TO TURF ONLY

Rates and Timings (cont'd)

Maximum Annual Rates

BARRICADE 65WG is recommended for use on the following turf grass species. The total amount of BARRICADE 65WG applied during one year must not exceed the amounts listed.

Maximum Annual Rate Per Calendar Year of BARRICADE 65WG Herbicide in Water Soluble Packs

TURF SPECIES	Ft/Pack	Lbs Prod./ Acres	Oz Prod./ 1000 Ft ²
Bermudagrass, Centipede-grass, Seashore Paspalum, Tall Fescue and Zoysia	9,638	2.30	0.83
Perennial Bluegrass, Perennial Ryegrass	14,545	1.50	0.55
Creeping Red Fescue, St. Augustinegrass	20,000	1.15	0.40
Creeping Bentgrass (min. 1/2 inch height)	21,622	1.00	0.37
Bermudagrass (newly sprigged or plugged)	26,667	0.80	0.30

- Do not apply more than 1.5 lbs/A of BARRICADE 65WG or the maximum yearly rate listed above per application, whichever is less.
- Do not make more than 2 applications per calendar year.
- If making a second application, wait at least 60 days before making the second application.

8

Weeds Controlled

The following table lists use rates recommended for control of indicated weeds for approximately 2 to 6 months.

Use the higher rate within the listed range for longer control in areas with extended germination periods (see *Crabgrass Seed Germination Date Map*, page 6).

Weeds Controlled and Application Rates* (for 2 to 6 months of control)

WEEDS CONTROLLED	Ft/Packs	Lbs Prod./ Acres	Oz Prod./ 1000 Ft ²
Crabgrass (large, smooth)	20,000-44,444	0.50-1.15	0.18-0.40
Annual Bluegrass, Common Chickweed, Prostrate Spurge	20,000-28,571	0.75-1.15	0.28-0.40
Yellow Foxtail, Shearspur, Henbit, Knotweed	14,545-20,000	1.15-1.50	0.40-0.55
Goosegrass, Rescuegrass	9,638-14,545	1.50-2.30*	0.55-0.83

* Do not exceed the maximum annual application rates recommended for the turf species. All applications must be made prior to germination of target weeds.

1. Fall application.
2. Weeds requiring rates greater than 1.15 lbs/A will require a sequential application (see *Rates and Timings*).
3. For the best control of goosegrass make a sequential application of 1.15 lbs/A followed after 60 days with 0.38 to 1.15 lbs/A of product.
4. Suppression only.

9

869

Overseeding/Reseeding

BARRICADE 65WG will inhibit the germination of turf species if overseeded too soon after application. Wait 4 to 6 months per 0.75 pound of BARRICADE 65WG applied when grass seed is to be broadcasted over the turf surface. This overseeding interval can be shortened to 3 to 4 months per 0.75 pound when grass seed is drilled directly into the soil. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and soil moisture. A shorter period is required if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry.

Turf Tank Mixes

Refer to **Mixing and Application** if mixing BARRICADE 65WG with fluid fertilizer is planned.

BARRICADE 65WG may be tank mixed with other registered turf herbicides. Tank mixes are for use only in states where the tank mix product and application site are registered.

Consult the label(s) of the individual tank mix product(s) for use, rate recommendations, application timing, weeds controlled, turf grass safety and specific precautions and/or restrictions.

Before mixing tank mix partners in the spray tank it is advisable to test compatibility by mixing the products in a small container. See the **Compatibility Test** section under **Mixing and Application**.

LANDSCAPE ORNAMENTALS

BARRICADE 65WG herbicide will not harm most nearby established ornamental trees, shrubs and flowers. The following species have shown tolerance to BARRICADE 65WG:

<u>Scientific Name</u>	<u>Common Name</u>
<i>Acer palmatum</i>	Japanese Maple
<i>A. platanoides</i>	Norway Maple
<i>Actinidia chinensis</i>	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Barberis gladiolifera</i>	Wintergreen Barberry
<i>B. julianae</i>	Mentor Barberry
<i>B. mentaransis</i>	Japanese Barberry
<i>B. thunbergii</i>	Warty Barberry
<i>B. verruculosa</i>	Japanese Boxwood
<i>Buxus microphylla</i>	Weeping Bottlebrush
<i>Callistemon viminalis</i>	Scotch Heather
<i>Calluna vulgaris</i>	Hottentot Fig (Ice Plant)
<i>Carpobrotus edulis</i>	Feathery Cassia
<i>Cassia artemisoides</i>	Wild Lilac
<i>Ceanothus rigidus</i>	False Cypress
<i>Chamaecyparis pisifera</i>	Cleyera
<i>Cleyera japonica</i>	Flowering Dogwood
<i>Cornus florida</i>	American Dogwood
<i>C. stolonifera</i>	Pampas Grass
<i>Cortaderia selloana</i>	Cranberry Cotoneaster
<i>Cotoneaster apiculatus</i>	Bearberry Cotoneaster
<i>C. buxifolius</i>	Rockspray Cotoneaster
<i>C. dammeri</i>	Italian Cypress
<i>C. microphyllus</i>	White Trailing Ice Plant
<i>Cupressus sempervirens</i>	Hop Bush
<i>Delosperma alba</i>	
<i>Dadonea viscosa</i>	

*Ornamental species only. Do not use on food producing trees or vines.

<u>Scientific Name</u>	<u>Common Name</u>
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper Euonymous
<i>E. japonica</i>	Evergreen Euonymous
<i>E. kiautschovica</i>	Spreading Euonymous
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>F. viridissima</i>	Greenstem Forsythia
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Hedera helix</i>	English Ivy
<i>Hibiscus rosa-sinensis</i>	Chinese Hibiscus
<i>Ilex cornuta</i>	Chinese Holly
<i>I. crenata</i>	Japanese Holly
<i>I. opaca</i>	American Holly
<i>I. pernyi</i>	
<i>Jasminum nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>J. conferta</i>	Shore Juniper
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans sp.</i>	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstramia indica</i>	Crepe Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet
<i>Liriope muscari</i>	Big Blue Lily Turf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>L. tatarica</i>	Tatarian Honeysuckle
<i>Malephora luteola</i>	Ice Plant
<i>Malus sp.</i>	Crabapple
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oryndrum arboreum</i>	Sourwood
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Fraser's Photinia

*Ornamental species only. Do not use on food producing trees or vines.

BEST AVAILABLE COPY

798

Scientific Name	Common Name
<i>Picea abies</i>	Norway Spruce
<i>Pieris japonica</i>	Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>P. canariensis</i>	Canary Island Pine
<i>P. halepensis</i>	Aleppo Pine
<i>P. nigra</i>	Austrian Black Pine
<i>P. radiata</i>	Monterey Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. strobus</i>	Eastern White Pine
<i>P. sylvestris</i>	Scotch Pine
<i>Pistachio sp.</i>	Pistachio*
<i>Pittosporum rambifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Mock Orange
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus sp.</i>	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pyracantha coccinea</i>	Firethorn
<i>P. fortuneana</i>	Firethorn
<i>P. koidzumii</i>	Firethorn
<i>Pyrus sp.</i>	Bradford Pear sp.
<i>Quercus rubra</i>	Red Oak
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i> (including Azalea)	"Coral Bells" "Formosa" "Hino-crimson" "PJM" "Roseum Elegans"
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i>	Rosemary
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	
<i>Sedum album</i>	Stonecrop
<i>Syzygium paniculatum</i>	Japanese Boxcherry
<i>Taxus cuspidata</i>	Japanese Yew

*Ornamental species only. Do not use on food producing trees or vines.

13

Scientific Name	Common Name
<i>T. media</i>	Yew
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>V. odoratissimum</i>	Sweet Viburnum
<i>V. plicatum</i>	Japanese Snowball
<i>V. rigidum</i>	Canary Island Viburnum
<i>V. hnu</i>	Laurustinus
<i>V. trilobium</i>	Cranberry Bush
<i>V. wrightii</i>	
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Vitis sp.</i>	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	Yucca Adam's Needle

*Ornamental species only. Do not use on food producing trees or vines.

 **SANDOZ**
SANDOZ AG, INC.
170 EAST LEXINGTON AVENUE, DES PLAINES, ILLINOIS 60018

14

BEST AVAILABLE COPY

563