

Reg # 2491-338

PM-23

193

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

2491-338

DATE OF ISSUANCE
25 SEP 1992

TERM OF ISSUANCE

Conditional, Expires: January 1, 1995

NAME OF PESTICIDE PRODUCT

KOOS Crabgrass Preventer with
0.363 Barricade[®] Preemergence
herbicide

NOTICE OF PESTICIDE: ☒ REGISTRATION
☐ REREGERISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

KOOS, Inc
4500 13th Court
Kenosha, WI 53140

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(C) provided that you:

1. Submit mitoxantrone data to fulfill the regulations requiring a discussion of the formation of impurities (Code of Federal Regulations, 40: Section 167.1) within one year of the date of this notice.
2. Add the phrase "EPA Registration No. 2491-338" to the label before you release the product for shipment.
3. Submit five (5) copies of the final printed labeling before you release the product for shipment.

and provided that Sandoz Agro, Inc., the manufacturer of the active ingredient of this product, submits the required data to continue the registration of profluminate as listed in the EPA Fact Sheet No. 231.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

BEST AVAILABLE COPY

Enclosure

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

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

9/24/92

25 SEP 1994

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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.

Do not contaminate water, food or feed by storage or disposal. STORAGE: Store in original container away from other fertilizer, feed and 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: Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or at an incineration facility, or if allowed by State or local authorities, by burning. If burned stay out of smoke.

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

This product is a turf fertilizer and a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf grasses and landscapes. It controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control it must be incorporated by 1/2 inch of rainfall, irrigation, or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application. Do not apply this product through any type of irrigation system. Do not apply aerially.

Apply uniformly through suitable, calibrated commercial application equipment.

This product 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 material that may be applied during a year. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

 1 After May 30
 2 After May 10
 3 After April 20
 4 After March 20
 5 Jan 1 to Mar 20

Foxtail (yellow-green) tend to germinate before crabgrass, therefore, if targeting foxtails, apply 3 weeks before the corresponding crabgrass germination date.

The following use precautions apply to the use of this product in turf grasses. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to FALL SEEDED TURF until the following spring and only after the second mowing. Do not apply to SPRING SEEDED TURF or to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Do not apply this product to lees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

This product should not be applied above a maximum annual rate of 390 lbs. per acre or 8.85 # / 1,000 sq.ft.

For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20. (See Crabgrass Seed Germination Data Map.).....
(Turf Seeding and Rates) continued in next column) 10401-228 PMA 105-51-201

KOOS, INC. - 4500 13TH COURT- KENOSHA, WI 53140

Creeping Red Fescue	85 to 195 lbs.
St. Augustinegrass	"
Creeping Bentgrass min 1/2"	85 to 175 lbs.
Bermudagrass; newly sprigged or plugged ⁽¹⁾	85 to 135 lbs.

(1) Suppression only of Foxtail, Goosegrass & Rescuesgrass due to reduced product rates. Do not apply more than 195 lbs. of product per application. Do not make more than 2 applications per calendar year. Do not apply more than 390 lbs. of product per calendar year. If making two applications, wait at least 60 days after the first application before making a second application. Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type.

When used at the recommended rates (See Turf Species and Rates Table) this product will control:

Annual Bluegrass	Knotweed
Common Chickweed (1)	Oxalis
Crabgrass - (Large, Smooth)	Prostrate Spurge
Foxtail - (Yellow, Green)	Rescuegrass (3)
Goosegrass (2)	Shepardspurge (1)
Henbit	

(1) Fall application. (2) For best control of goosegrass apply 195 lbs. / acre. Shdy days later make a second application with 65 to 195 lbs. / acre of product (see information in Turf Species and Rates section above). (3) Suppression Only.

This product will inhibit germination of turf species if over-seeded / reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and the soil moisture.(cont. on next panel)

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

Total Nitrogen (N)	32%
Available Phosphoric Acid (P ₂ O ₅)	4%
Soluble Potash (K ₂ O)	6%

Ingredients: Urea formaldehyde, Urea, Sulfur Coated Urea,
Ammoniated Phosphate, Muriate of Potash

SPREADER SETTINGS				
Spreader	Approx. pounds of product to apply per 1,000 sq. ft.			
	2 #/1,000	3 #/1,000	4 #/1,000	5 #/1,000
Cyclone B-1	26	30	34	41
Ortho Drop	35	40	425	575
Scotts Drop	35	53	625	70

ESTABLISHED TURF

CRABGRASS SEED GER

1 2 3 4 5

For all before
For all
For all
For all

Use Prescriptions

The following use precautions apply to the use of this product in turf grasses. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to FALL SEEDED TURF until the following spring and only after the second mowing. Do not apply to SPRING SEEDED TURF or to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Do not apply this product to lees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

This product should not be applied above a maximum annual rate of 390 lbs. per acre or 8.85 # / 1,000 sq.ft.

For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20. (See Crabgrass Seed Germination Data Map.).....

KOOS, INC. - 4500 13TH COURT- KENOSHA, WI 53140

136 to 260	8 mos.	12 mos.	6 mos.	8 mos.
261 to 390	12 mos.	18 mos.	9 mos.	12 mos.

This product will not harm most established evergreen shrubs and flowers when applied to surrounding areas, according to the directions given in the Turf Science and Maintenance. The following species have shown tolerance to this product:

Acer Palmatum **Japanese Maple** Z

Acer Palmatum	Japanese Maple	393
Acer Platanoides	Norway Maple	
Actinidia chinensis	Kiwi	
Agapanthus africanus	Lily-Of-the-Nile	
Arctostaphylos densiflora	Vine Hill Manzanita	
Arctosthca calandula	Cape Weed	
Aucuba japonica	Japanese Aucuba	

<i>Barberris gladymerensis</i>	—
<i>B. julianae</i>	Wintergreen Barberr
<i>B. meritorensis</i>	Mentor Barberr
<i>B. thunbergii</i>	Japanese Barberr
<i>B. verruculosa</i>	Warty Barberr
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Carpobrotus edulis</i>	Hottentot Figleaf Plant
<i>Cassia artemisioides</i>	Feathery Cassia
<i>Ceanothus rigatus</i>	Wild Lilac
<i>Chamaecyparis plectra</i>	False Cypress
<i>Cleyera japonica</i>	Cleyera
<i>Cornus florida</i>	Flowering Dogwood
<i>C. stolonifera</i>	American Dogwood
<i>Cortaderia selkiana</i>	Pampas-Grass
<i>Coloneaster spiculatus</i>	Cranberry Cotoneaster

C. buxifolius
C. Dammeri
C. microphyllus
Cupressus sempervirens
Daleopsis alba
Dodonaea viscosa
Elaeagnus pungens
Euonymus fortunei
E. japonica
E. laevis
Fatsia japonica
Forsythia intermedia
F. viridissima
Gardenia jasminoides
Hedera helix
Hibiscus Rosa-sinensis
Ilex cornuta
I. crenata
I. opaca
I. Perryi
Jasminum nudiflorum
Juniper sp.
Juniperus chinensis
J. conferta
J. horizontalis
Justicia brandegeana
Lagerstromia indica
Liquidambar amurensis
L. japonicum
L. lucidum
Liriodendron auriculatum
Lonicera japonica
L. tatarica
Maleophris laevis
Malus sp.
Nandina domestica
Olea europaea
Ophiopogon japonicus
Ostrya virginica
Oxydendrum arboreum
Persica americana
Photinia Fraseri
Picea abies
Picea japonica
Pinus brutia
P. canariensis
P. halepensis
P. nigra
P. radiata
P. Thunbergiana
P. strobus
P. sylvestris
Pistacia
Ptilosporum rhombifolium
P. lobata
Podocarpus macrophylla
Prunus laurocerasus
Prunus sp.

Pyracantha coccinea
P. fortuneana
P. loddumii
Pyrus sp.
Quercus rubra
Raphiolepis indica
Rhododendron
(including azalea)

Bearberry
Colonaster
Rockspray Colonaster
Italian Cypress
White Trailing Ice Plant
Hog Bush
Silverberry
Wintercreeper
Evergreen Euonymus
Spreading Euonymus
Japanese Aralia
Border Forsythia
Greenstem Forsythia
Gardenia, Cape Jasmine
English Ivy
Chinese Hibiscus
Chinese Holly
Japanese Holly
American Holly
Perry Holly
Winter Jasmine
Walnut

Chinese Juniper
Shorea Juniper
Creeping Juniper
Japanese Plant
Crepe Myrtle
Amur Privet
Japanese Privet
Glossy Privet
Big Blue Lily Turf
Japanese Honeysuckle
Western Honeysuckle
Ice Plant
Crabapple
Happy Valley Bamboo
Olive
Morris Grass
Trailing Wreath Daisy
Avocado
Fraser's Photinia
Norway Spruce
Lily-of-the-Valley Shrub
Alopecurus, Var.
Canary Island Pine
Calamian Pine
Austrian Black Pine
Monterey Pine
Japanese Black Pine
Eastern White Pine
Scotch Pine
Pistachio
Queensland Pittosporum
Japanese Pittosporum
Podocarpus sp.
English Laurel
Almond, Apricot, Nectarine
Peach, Plum and Prune
Firethorn sp.
Firethorn, formosensis sp.
Bradford Pear sp.
Red Oak
Indian Hawthorne
Coral Bells
Forsythia

Rose Bankalea
 Rosmarinus officinalis
 Santolina viridis
 Sedum album
 Syzygium paniculatum
 Tinus cuspidata
 T. media
 Thuja occidentalis
 Trachelospermum asiaticum
 Tsuga canadensis
 Viburnum japonicum
 V. odoratissimum
 V. plicatum
 V. rigidum
 V. truei
 V. trilobium
 V. Wrightii
 Vinca minor
 Vinca sp.
 Weigela florida
 Yucca filifolia
 Yucca filamentosa

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

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For Selective Preemergence Control of Grass and Broadleaf Weeds in Established Turf Grasses and Landscape Ornamentals

ACTIVE INGREDIENT

Proflamline (N,N-Di-*n*-propyl-2,4-dinitro-6-(trifluoromethyl)-*m*-phenylenediamine) - 0.383%
INERT INGREDIENTS: - - - - - 99.617%
Total 100.000%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Side Panel for Additional Precautionary Statements
Barricade® is a registered trademark of Sandco, Ltd.
EPA Reg. No. 2491- EPA Est. No. 2491-WI-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

Statement of Practical Treatment
If in Eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.
If on Skin: Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.
If Inhaled: Remove victim to fresh air.

ENVIRONMENTAL HAZARDS
This product has low solubility in water. At the limits 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in original container away from other fertilizer, feed and 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: Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or at an incineration facility, or if allowed by State or local officials, by burning. If burned stay out of smoke.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This product is a turf fertilizer and a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf grasses and landscapes. It controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control it must be incorporated by 1/2 inch of rainfall, irrigation, or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application. Do not apply this product through any type of irrigation system. Do not apply aerially.

APPLICATION DIRECTIONS
Apply uniformly through suitable, calibrated commercial application equipment.

This product 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 material that may be applied during a year. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

CRABGRASS SEED GERMINATION DATES

TURF SPECIES AND RATES (Cont.)

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds. The rates listed in the table below are for weed control of approximately 2 - 6 months.

Turf Species and Rates Table

Turf Species	Minimum & Maximum Rate Lbs./Acre/Calendar Year
Bermudagrass	85 to 390 lbs.
Centipedegrass	"
Seashore Paspalum	"
Tall Fescue	"
Zoysia	"
Perennial Bluegrass	85 to 260 lbs.
Perennial Ryegrass	"
Creeping Red Fescue	85 to 195 lbs.
St. Augustinegrass	"
Creeping Bentgrass min 1/2"	85 to 175 lbs.
Bermudagrass; newly sprigged or plugged ⁽¹⁾	85 to 135 lbs.

⁽¹⁾ Suppression only of Foxtail, Goosegrass & Rescuegrass due to reduced product rates. Do not apply more than 195 lbs. of product per application. Do not make more than 2 applications per calendar year. Do not apply more than 390 lbs. of product per calendar year. If making two applications, wait at least 60 days after the first application before making a second application. Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type.

WEEDS CONTROLLED

When used at the recommended rates (See Turf Species and Rates Table) this product will control:

Annual Bluegrass	Knotweed
Common Chickweed (1)	Oxalis
Crabgrass - (Large, Smooth)	Prostrate Spurge
Foxtail - (Yellow, Green)	Rescuegrass (3)
Goosegrass (2)	Sheepspurge (1)
Henbit	

(1) Fall application. (2) For best control of goosegrass apply 195 lbs./acre. Sixty days later make a second application with 65 to 195 lbs./acre of product (see information in Turf Species and Rates section above). (3) Suppression Only.

OVERSEEDING/RESEEDING

This product will inhibit germination of turf species if overseeded / reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and the soil moisture.(cont. on next panel)

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N)	32%
Available Phosphoric Acid (P ₂ O ₅)	4%
Soluble Potash (K ₂ O)	3%
Ingredients: Urea formaldehyde, Urea, Sulfur Coated Urea, Ammoniated Phosphate, Muriate of Potash	

SPREADER SETTINGS

Spreader	Approx. pounds of product to apply per 1,000 sq. ft.	2 1/2" 1,000	3 1/2" 1,000	4 1/2" 1,000	6 1/2" 1,000
Cyclone B-1	28	30	34	41	
Ortho Drop	35	40	425	575	
Scotts Drop	55	55	625	70	

Net Weight 25 Pounds

ESTABLISHED TURF

This product 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 material that may be applied during a year. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

Overseeding/Reseeding (Cont.)

A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry. Use the following Overseeding/Reseeding Intervals Table as a guide when choosing the appropriate overseeding/reseeding interval for each situation. The table below lists the Overseeding/Reseeding Intervals (Months) Based Upon Seeding Method and Predominant Soil Conditions for the Season.

Overseeding/Reseeding Intervals Table

lbs./Acre of product	Broadcast Seeding		Drill Seeding	
	wet & warm	cool & dry	wet & warm	cool & dry
85 to 135	4 mos.	6 mos.	3 mos.	4 mos.
136 to 260	8 mos.	12 mos.	6 mos.	8 mos.
261 to 390	12 mos.	18 mos.	9 mos.	12 mos.

LANDSCAPE ORNAMENTALS

This product will not harm most established ornamental trees, shrubs and flowers when applied to surrounding areas in accordance to the directions given in the Turf Species and Rates section. The following species have shown tolerance to this product.

Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple
Actinidia chinensis	Kiwi
Agapanthus africanus	Lily-Of-The-Nile
Arctostaphylos densiflora	Vine Hill Manzanita
Arctostaphylos californica	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladiolifolia	
B. julianae	Wintergreen Barbary
B. menziesii	Menor Barbary
B. thunbergii	Japanese Barbary
B. verticillata	Warty Barbary
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisioides	Festive Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Cornus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. bodinieri	
C. demmeri	Bearberry Cotoneaster
C. microphylla	Rockspray Cotoneaster
Cupressus sempervirens	Italian Cypress
Delosperma alba	White Trailing Ice Plant
Dodonaea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper
E. japonica	Evergreen Euonymus
E. alatus	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
F. viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape Jasmine
Hedera helix	English Ivy
Hibiscus Rosa-sinensis	Chinese Hibiscus
Hieracium	Chinese Holly
I. crenata	Japanese Holly
I. opaca	American Holly
I. Perryi	Perry Holly
Jasminum nudiflorum	Winter Jasmine
Juniperus sp.	Walnut
Juniperus chinensis	Chinese Juniper
J. conferta	Shobun Juniper
J. horizontalis	Climbing Juniper
Justicia brandegeana	Gramp Plant
Lagerflora indica	Cape Myrtle
Ligustrum sinense	Amur Privet
L. japonicum	Japanese Privet
L. lucidum	Ok. say Privet
Liriodendron	Big Blue Lily Turf
Lonicera japonica	Japanese Honeysuckle
L. tatarica	Scandinavian Honeysuckle
Malephora laevis	Ice Plant
Malus sp.	Crabapple
Nandina domestica	Heavenly Bamboo
Olea sp.	Olive
Ophiopogon japonicus	Mon. Grass
Ostrya virginica	Tr. Junc. (Vfrican Daisy)
Orydendrum arboreum	Junc. 1,000
Pe. see americana	Avocado
Photinia Fraseri	Fraser's Photinia
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley Shrub
Pinus brutia	Alleppe Pine, Var.
P. canariensis	Canary Island Pine
P. halepensis	Celebration Pine
P. nigra	Austrian Black Pine
P. radiata	Monterey Pine
P. thunbergiana	Japanese Black Pine
P. strobus	Eastern White Pine
P. sylvestris	Scotch Pine