



**EPA Reg. No. 100-1456-82757**  
 EPA Est. # 82757-OH-001 (Lot # Begins with MF)  
 EPA Est. # 82757-MA-002 (Lot # Begins with H)  
 EPA Est. # 82757-FL-001 (Lot # Begins with S)

**19-0-5**

ACCEPTED  
FOR REGISTRATION

**CHLORINE (Cl) Max** .....Division of Materials Management 3.8%  
Pesticide Product Registration

If this product is being sold in a state requiring the publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: <http://www.apfco.org/metals.htm>.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Net Weight 50.0 lbs. (22.67 KG) Part Code # 902847**

DIRECTIONS FOR USE			Kochia	Purslane, Common	Speedwell, Persian	Rates for Lawn Grass Species				
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.			Lambsquarter, Common	Pusley, Florida	Sprangletop		Application Schedule <sup>1</sup>	Application Rate <sup>2</sup>		
			Lovegrass	Rescuegrass <sup>4</sup>	Spurge, Prostrate			First Application	Base	Medium
			Panicum (Texas, Fall, Browntop)	Shepherd's Purse	Witchgrass		Second Application (optional)	Base or Medium or High	Base or Medium or High	Base or Medium or High
			Pigweed	Signalgrass, Broadleaf	Woodsorrel, Yellow (from seed)					
			<sup>1</sup> In areas where <i>Poa annua</i> is a winter annual, apply TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide (see rate table) in August or September to established, non-overseeded turf before <i>Poa annua</i> seeds germinate. These timings are approximate. Consult State Extension Service for more specific timing for your area.							
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 requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.			<sup>2</sup> Fall Applications for Spring Crabgrass Control in Cool-Season Grasses: In those areas where the ground freezes in the winter, TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide can be applied in the fall after the soil temperature falls below 50°F but before the ground freezes. This application will control crabgrass the following spring.							
			<sup>3</sup> In many areas, a single application will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, make a second application 60-90 days later to ornamentals and lawns (if recommended for your lawn grass species).							
			<sup>4</sup> Suppression only.							
			ESTABLISHED TURF							
			Golf courses (except putting greens), lawns, parks, athletic fields, sod farms							
• For use on plants intended for aesthetic purposes or climatic modification • Read entire label before using this product			How to Apply				First Application	Base	Medium	High
			• Do not apply more than 12.0 lbs. product/1,000 sq. feet (1.5 lbs. ai/A) per calendar year. • Do not make more than two applications per calendar year. • Refer to <i>Rates for Grass Species</i> table and <i>Granular Spreader Settings</i> table for spreader settings to deliver the rate recommended for your lawn grass species. Uniform coverage is necessary to provide the most effective level of control. • Apply TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide to the turf in the early spring prior to crabgrass emergence. See <i>Crabgrass Germination Dates</i> in the map below for the approximate timing in your area. Always apply before weeds emerge. TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide will not control emerged crabgrass. • If you have a known serious weed problem or live in an area with an extended growing season, you may need to make a second application 60-90 days later. • If you live in Zones D and E (see <i>Crabgrass Germination Dates</i> map), you may apply a higher rate (Medium or High Rate) or make two applications for more effective crabgrass control, if recommended for your turfgrass species. • Do not make a second application to Fine Fescue, Creeping Bentgrass, and newly sprigged and plugged Bermudagrass. Do not make a second application if you applied the High Rate to Buffalograss, Kentucky Bluegrass, or Perennial Ryegrass. • For best control - After application, water in with ½ inch of water within 14 days, either from watering or rain.			Second Application (optional)	Base or Medium	Base or Medium	-----	
						Perennial Ryegrass				
						Fine Fescue (including Red Fescue)	One Application Only	Base or Medium or High	-----	-----
						Creeping Bentgrass (0.5 inch and greater height) <sup>3</sup>	One Application Only	Base or Medium	-----	-----
						Bermudagrass (newly sprigged and plugged) <sup>4</sup>	One Application Only	Base or Medium	-----	-----
						<sup>1</sup> A second application may be necessary because of heavy weed pressure or extended growing season.				
						<sup>2</sup> See <i>Granular Spreader Settings</i> table for spreader settings to deliver the rate.				
						<sup>3</sup> To avoid grass injury, do not apply TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide to creeping bentgrass mowed at less than 0.5 inch in height.				
						<sup>4</sup> Newly sprigged or plugged Bermudagrass rooting may be temporarily slowed.				
						Granular Spreader Settings <sup>1,2,3</sup>				
						Make and Models	3.0 lb/1,000 sq. ft. Base Rate (Treats 16,666 sq. ft.)	4.0 lb/1,000 sq. ft. Medium Rate (Treats 12,500 sq. ft.)	6.0 lb/1,000 sq. ft. High Rate (Treats 8,333 sq. ft.)	
						LESCO Rotary	E.5 / 13	F.5 / 15	H / 18	
						Earthway Rotary	14	16	18	
						<sup>1</sup> Assume 3 mph walking speed.				
						<sup>2</sup> It is recommended that you calibrate your spreader before application since manufacturer's settings can vary among the same model of spreader.				
						<sup>3</sup> Do not apply more than 1.5 lbs. ai/A per year.				
						Use Precautions				
						• Do not apply to putting greens or turfgrass areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass ( <i>Poa annua</i> ) are desirable species.				
						• Do not cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly-set sod until the sod has rooted into the second inch of soil and exposed edges have filled in.				
						• Application of TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide to turf stressed by drought, low fertility, or pest damage may result in turf injury.				
						• Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.				
						• <b>Seeding:</b> Do not apply to overseeded areas for 60 days after seeding, or until after the second mowing, whichever is longer. Do not overseed for 4 months after last applications of this product.				

LANDSCAPE, FIELD GROWN ORNAMENTALS AND NON-CROP AREAS							
How to Apply							
•	Apply TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide as a broadcast, over-the-top application at 5.2-11.9 lbs. product/1,000 sq. ft. Use higher rates when weed pressure was a severe problem in the past.	•	On newly-transplanted ornamentals, apply after the soil has settled around the transplants.				
•	Make a single application in fall and/or spring prior to weed emergence. Another application may be made 60-90 days later, if necessary. Do not exceed a total of 11.9 lbs. product/1,000 sq. ft per year.	•	For best weed control, apply to soil free of clods, weeds, and debris such as leaves.				
•	After application, water in with ½ inch of water within 14 days, either from watering or rain or, incorporate into the top 1-2 inches of soil within 14 days after application.	•	Prior to application, control existing weeds by hand weeding, cultivation, or by the use of an herbicide for emerged weeds.				
•	On established ornamentals, watering or rainfall soon after application will wash residues off plant foliage and activate TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide in the soil.	•	Plants under stress (such as heat, drought, or frost damage) may be sensitive to TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide.				
Tolerant Ornamentals							
TCS GrowStar® Fertilizer with 0.29% Barricade® Herbicide will not harm most trees, shrubs, vines and flowers. See the two tables: Table 1. Tolerant Ornamentals – All States and Table 2. Tolerant Ornamental – All States except California.							
Table 1. Tolerant Ornamentals – All States							
Scientific Name	Common Name	Scientific Name	Common Name	Scientific Name	Common Name	Scientific Name	Common Name
Abies spp.	Fir species (Balsam, Fraser, Noble, etc.)	Elaeagnus pungens	Silverberry	Malus spp.	Crabapple*	Pyracantha koidzumii	Firethorn
Acer palmatum	Japanese Maple	Euonymus fortunei	Wintercreeper	Nandina domestica	Heavenly Bamboo	Pyrus spp.	Bradford Pear spp.
Acer platanoides	Norway Maple	Euonymus japonica	Japanese Spindle Tree (Evergreen Euonymus)	Narcissus spp.	Narcissus species	Quercus rubra	Oak species
Actinidia chinensis	Kiwi*	Euonymus kiautschovicks	Spreading Euonymus	Nerium spp.	Oleander	Rhaphiolepis indica	Indian Hawthorne
Agapanthus africanus	Lily-of-the-Nile (African Lily)	Fatsia japonica	Japanese Aralia	Olea europaea	Olive*	Rhododendron (including Azalea)	'Coral Bells', 'Formosa', 'Hino-crimson', 'PJM', 'Roseum Elegans'
Arctostaphylos densiflora	Vine Hill Manzanita	Forsythia intermedia	Border Forsythia	Ophiopogon japonicus	Mondo Grass	Rosa banksiae	Lady Bank's Rose
Arctotheca calendula	Cape Weed	Forsythia viridissima	Greenstem Forsythia	Osteospermum fruticosum	Trailing African Daisy	Rosmarinus officinalis	Rosemary*
Aucuba japonica	Japanese Aucuba	Gardenia jasminoides	Gardenia, Cape-Jasmine	Oxydendrum arboreum	Sourwood	Rumohra adiantiformis	Leatherleaf Fern
Berberis gladwynensis	Barberry	Gladiolus spp.	Gladiolus species	Persea americana	Avocado*	Santolina virens	
Berberis julianae	Wintergreen Barberry	Hedera helix	English Ivy	Photinia fraseri	Frasier's Photinia (Redtip)	Sedum album	Stonecrop
Berberis mentorensis	Mentor Barberry	Hibiscus	Rose of Sharon	Picea spp.	Spruce species (Colorado Blue, Norway, etc.)	Syzygium paniculatum	Japanese Boxcherry
Berberis thunbergii	Japanese Barberry	Hibiscus Rosa-sinensis	Chinese Hibiscus	Pieris japonica	Lily-of-the-Valley Shrub	Taxus cuspidata	Japanese Yew
Berberis verruculosa	Warty Barberry	Ilex cornuta	Chinese Holly	Pinus brutia	Calabrian Pine	Taxus media	Yew
Buxus microphylla	Japanese Boxwood	Ilex crenata	Japanese Holly	Pinus canariensis	Canary Island Pine	Thuja occidentalis	American Arborvitae
Callistemon viminalis	Weeping Bottlebrush	Ilex opaca	American Holly	Pinus elliotii	Slash Pine	Trachelospermum asiaticum	Star Jasmine
Calluna vulgaris	Scotch Heather	Ilex pernyi	Holly	Pinus halepensis	Aleppo Pine	Tsuga canadensis	Canada Hemlock
Carpobrotus edulis	Hottentot Fig (Ice Plant)	Ilex vomitoria	Yaupon Holly	Pinus nigra	Austrian Black Pine	Tulipa spp.	Tulip species
Cassia artemisioides	Feathery Cassia	Iris spp.	Iris species	Pinus palustris	Longleaf Pine	Viburnum japonicum	Japanese Viburnum
Ceanothus rigidus	Wild Lilac	Jasminium nudiflorum	Winter Jasmine	Pinus radiata	Monterey Pine	Viburnum odoratissimum	Sweet Viburnum
Chamaecyparis pisifera	False Cypress	Juniperus chinensis	Chinese Juniper	Pinus strobus	Eastern White Pine	Viburnum plicatum	Japanese Snowball
Cleyera japonica	Cleyera	Juniperus conferta	Shore Juniper	Pinus sylvestris	Scotch Pine	Viburnum rigidum	Canary Island Viburnum
Citrus spp.	Citrus species*	Juniperus horizontalis	Creeping Juniper	Pinus taeda	Loblolly Pine	Viburnum tinus	Laurustinus
Cornus florida	Flowering Dogwood	Juglans spp.	Walnut*	Pinus thunbergiana	Japanese Black Pine	Viburnum trilobum	Cranberry Bush
Cornus stolonifera	American Dogwood	Justicia brandegeana	Shrimp Plant	Pinus virginiana	Virginia Pine	Viburnum wrightii	Leatherleaf Viburnum
Cortaderia selloana	Pampas Grass	Lagerstromia indica	Crape Myrtle	Pistacia spp.	Pistachio*	Vinca major	Vinca
Cotoneaster apiculatus	Cranberry Cotoneaster	Ligustrum amurense	Amur Privet	Pittosporum rhombifolium	Queensland Pittosporum	Vinca minor	Dwarf Periwinkle
Cotoneaster buxifolius	Cotoneaster	Ligustrum japonicum	Japanese Privet	Pittosporum tobira	Japanese Pittosporum	Vitis spp.	Grape*
Cotoneaster dammeri	Bearberry Cotoneaster	Ligustrum lucidum	Glossy Privet (Wax-Leaf)	Podocarpus macrophyllus	Japanese Yew	Weigela florida	Old Fashioned Weigela
Cotoneaster microphyllus	Rockspray Cotoneaster	Lirope muscari	Big Blue Lillyturf	Prunus laurocerasus	English Laurel	Yucca aloifolia	Spanish Bayonet
Crataegus spp.	Hawthorne	Lonicera japonica	Japanese Honeysuckle	Prunus spp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*	Yucca filamentosa	Yucca, Adam's Needle
Cupressus sempervirens	Italian Cypress	Lonicera tatarica	Tatarian Honeysuckle	Pseudotsuga menziesii	Douglas Fir	*Do not use on food-producing trees, vines, or plants.	
Delosperma alba	White Trailing Ice Plant	Magnolia spp.	Magnolia species	Pyracantha coccinea	Firethorn Scarlet		
Dodonaea viscosa	Hop Bush	Malephora luteola	Ice Plant	Pyracantha fortuneana	Firethorn		

Table 2. Tolerant Ornamental Species/Varieties – All States Except California							
Scientific Name	Common Name	Scientific Name	Common Name	Scientific Name	Common Name	Scientific Name	Common Name
<i>Abelia grandiflora</i>	Abelia: Sherwood	<i>Chrysanthemum nipponicum</i>		<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea	<i>Perovskia atriplicifolia</i>	
<i>Achillea</i> spp.	Yarrow: King Edward	<i>Coreopsis</i> spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam	<i>Inula ensifolia</i>		<i>Physostegia virginiana</i>	Dragonhead, False; Vivid
<i>Agapanthus orientalis</i>		<i>Crocosmia</i> spp.	Lucifer	<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong	<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Akebia quinata</i>	Five-Leaf or Chocolate Vine	<i>Delosperma</i> spp.	Cooperi Pink	<i>Iris siberica</i>	Siberian Iris; Cabernet	<i>Rhaphiolepis umbellata</i>	Yedda Hawthorne
<i>Allium cernuum</i>	Lady's Leek, Nodding Onion	<i>Delphinium</i> spp.	Larkspur, Blue Elf	<i>Juniperus davurica</i>	Parsoni	<i>Rhododendron</i> (including azalea)	'Delaware Valley White', 'Flame Creeper', 'Girard Crimson', 'George L. Tabor', Wakeiebisu, White Gumpo
<i>Anemone hybrida</i>	Japanese Anemone	<i>Dianthus deltoides</i>	Dianthus, Maiden Pinks 'Zing'	<i>Lagerstromia indica</i> x <i>fauriei</i>	Crape Myrtle; Tuscarora	<i>Rudbeckia</i> spp.	Black-Eyed Susan: Goldstrum
<i>Aquilegia</i> spp.	Aquilegia: Red and Gold	<i>Dianthus gratianopolitanus</i>	Cheddar Pink	<i>Lantana montevidensis</i>	Weeping Lantana	<i>Saxifraga</i> spp.	Saxifrage; Purple Dome
<i>Artemisia</i> spp.	Wormwood; Silver Mound, Castle	<i>Echinacea pupurea</i>	Coneflower, Purple, Magnus	<i>Lavender</i> spp.	Lavender; Munstead	<i>Scabiosa</i> spp.	Pincushion Flower
<i>Aster</i> spp.	Aster: Bonny Blue, Purple Dome	<i>Forsythia suspensa</i>	Weeping Forsythia	<i>Leontopodium alpinum</i>	Edelweiss	<i>Sedum cauticola</i>	Stonecrop; Lidakense
<i>Aster X frikartii</i>		<i>Gaillardia</i> spp.	Gaillardia, Blanket Flower: 'Goblin'	<i>Ligustrum sinense</i>	Chinese Privet; Variegata	<i>Sedum dasyphyllum</i>	Stonecrop
<i>Athyrium filix-femina</i>	Lady Fern; Fern Lady	<i>Gaura</i> spp.		<i>Lilium</i> spp.	Lily: Jazz	<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Begonia</i> spp.	Fibrous Begonia: Hardy Grandis	<i>Gentiana dahurica</i>	Gentian	<i>Lirope muscari</i> var. <i>variegata</i>	Lirope, Variegated	<i>Spiraea bumalda</i>	Spirea: Anthony Waterer
<i>Bergenia cordifolia</i>		<i>Geranium cinereum</i>	Cranesbill	<i>Lirope spicata</i>	Lirope, Creeping	<i>Syzyglum paniculatum</i>	Australian Brushcherry
<i>Boltonia asteroides</i>	Snowbank	<i>Gypsophila repens</i>	Baby's Breath	<i>Lobelia cardinalis</i>	Cardinal Flower, Indian Pink	<i>Teucrium</i> spp.	Germander
<i>Bougainvillea</i> spp.	Bougainvillea	<i>Helianthemum</i> spp.	Sunrose	<i>Loropetalum chinense</i>	Burgundy	<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Buddleia davidii</i>	Butterfly-Bush (Dwarf Blue); Royal Red	<i>Hemerocallis</i> spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love	<i>Lythrum</i> spp.	Loosestrife; Modern Pink	<i>Veronica</i> spp.	Veronica, Speedwell; Sunny Border
<i>Callistemon citrinus</i>	Crimson Bottlebrush	<i>Heucherella</i> spp.	Coral Bell; Bridget Bloom	<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder	<i>Viburnum suspensum</i>	Arrowwood Viburnum
<i>Campanula carpatica</i>	Tussock Bellflower; (White Clips)	<i>Hibiscus</i> spp.	Mallow; Disco Belle White	<i>Oenothera missourensis</i>	Evening Primrose	*Do not use on food-producing trees, vines, or plants.	
<i>Campis X tagliabuana</i>	Trumpet Creeper, Trumpet Flower, Madame Galen	<i>Hosta plantaginea</i>	Hosta, Plantain Lily (Fragrant)	<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly): Gulf Tide		
<i>Ceratostigma plumbaginoides</i>		<i>Hosta sieboldiana</i>	Hosta, 'Searsucker'	<i>Paeonia suffruticosa</i>	Tree Peony		
		<i>Houttuynia cordata</i> var. <i>variegata</i>		<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)		
STORAGE AND DISPOSAL				Pesticide Disposal and Container Handling (Household/Residential)			
Do not contaminate water, food, or feed by storage and disposal.				Non-refillable Container. Do not reuse or refill this container.			
Pesticide Storage:	Store in a cool, dry place. Keep container closed and away from food, feedstuffs, and domestic water supplies.			If empty:	Place in trash or offer for recycling if available.		
Pesticide Disposal:	Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.			If partly filled:	Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.		
Container Handling:	Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.			Barricade® is a Trademark of a Syngenta Group Company			
				TCS GrowStar® is a Registered Trademark of Turf Care Supply Corp.			
				Questions or Comments? Call 1-877-220-1014			