

Attachment 1: Vendor Submittal - Vendor's Check List

IMPORTANT: THIS SHEET MUST BE SIGNED BY VENDOR. Please read carefully, sign in the spaces indicated and return with bid.

Vendor should check off each of the following items as the necessary action is completed:

1. The Bid has been signed.
2. The Bid prices offered have been reviewed.
3. The price extensions and totals have been checked.
4. The payment terms have been indicated.
5. Any required drawings, descriptive literature, etc. have been included.
6. Any delivery information required is included.
7. If required, the amount of bid bond has been checked, and the bid bond or cashier's check has been included.
8. Addendum have been signed and included, if applicable.
9. Affidavit for Claiming Status as a Local Business, if applicable.
10. Immigration Affidavit.
11. Copies of licenses, equipment lists, subcontractors or any other information as noted in this ITB.
12. The mailing envelope must be addressed to:
 Purchasing Director
 Collier County Government Center
 Purchasing Building
 3301 East Tamiami Trail
 Naples, Florida 34112
13. The mailing envelope must be sealed and marked with:
 • **Title: ITB 10-5588-R Purchase & Delivery of Fungicides, Pesticides & Herbicides and Opening Date**
14. The bid will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise bid cannot be considered.)

ALL COURIER DELIVERED BIDS MUST HAVE THE BID NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET.

Forestry Resources, Inc
 Company Name
Bristine Mager / Direct Sales
 Signature & Title
2.17.11
 Date

Attachment 2: Vendor Submittal - Bid Response Form

FROM: Forestry Resources, Inc.

Board of County Commissioners
Collier County Government Center
Naples, Florida 34112

RE: **ITB 10-5588-R Purchase & Delivery of Fungicides, Pesticides & Herbicides**

Dear Commissioners:

The undersigned, as Vendor, hereby declares that the specifications have been fully examined and the Vendor is fully informed in regard to all conditions pertaining to the work to be performed for as per the scope of work. The Vendor further declares that the only persons, company or parties interested in this Bid or the Contract to be entered into as principals are named herein; that this Bid is made without connection with any other person, company or companies submitting a Bid; and it is all respects fair and in good faith, without collusion or fraud.

The Vendor proposes and agrees if this Bid is accepted, to contract, either by a County issued purchase order or formal contract, to comply with the requirements in full in accordance with the terms, conditions and specifications denoted herein, according to the following unit prices:

***** SEE FOLLOWING PAGES *****

Any discounts or terms must be shown on the Bid Response Form. Such discounts, if any, will be considered and computed in the tabulation of the bids. In no instance should terms for less than fifteen (15) days payment be offered.

Prompt Payment Terms: _____ % _____ Days; Net 30 Days

Response Format

Vendor Price List in an Excel Format

- Attachment 1: Vendor's Check List
- Attachment 2: Bid Response Form
- Attachment 3: Insurance and Bonding Requirements
- Attachment 4: Local Vendor Preference Affidavit
- Attachment 5: Immigration Affidavit
- Appropriate Licenses/Certificates**

Note: If you choose to bid manually, please submit an ORIGINAL and ONE COPY of your bid response pages. The undersigned do agree that should this Bid be accepted, to execute a formal contract, if required, and present the formal contract to the County Purchasing Director for approval within fifteen (15) days after being notified of an award.

IN WITNESS WHEREOF, WE have hereunto subscribed our names on this 17th day of February, 2010 in the County of Lee, in the State of FL.

Firm's Complete Legal Name Forestry Resources Inc

Address 4353 Michigan Link

City, State, Zip Ft. Myers, FL 33916

Florida Certificate of Authority Document Number _____

Federal Tax Identification Number 59-2438601

Telephone Number 239.334.7343

FAX Number 239.334.4602

Check one of the following: Sole Proprietorship Corp or P.A. State of FLA Limited Partnership General Partnership

Signature / Title Kristine Mager

Type Name of Signature Direct Sales

Date 2.17.11

Additional Contact Information

Send Payments To: (REQUIRED ONLY if different from above)

Firm's Complete Legal Name _____

Address _____

City, State, Zip _____

Contact Name _____

Telephone Number _____

FAX Number _____

Email Address _____

Same

Attachment 3: Vendor Submittal - Insurance and Bonding Requirements

Insurance / Bond Type

Required Limits

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Worker's Compensation | Statutory Limits of Florida Statutes, Chapter 440 and all Federal Government Statutory Limits and Requirements |
| 2. <input type="checkbox"/> Employer's Liability | \$ _____ single limit per occurrence |
| 3. <input checked="" type="checkbox"/> Commercial General Liability (Occurrence Form) patterned after the current ISO form | Bodily Injury and Property Damage
\$1,000,000 single limit per occurrence |
| 4. <input checked="" type="checkbox"/> Indemnification | To the maximum extent permitted by Florida law, the Contractor/Vendor/Consultant shall indemnify and hold harmless Collier County, its officers and employees from any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorneys' fees and paralegals' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Contractor/Vendor/Consultant or anyone employed or utilized by the Contractor/Vendor/Consultant in the performance of this Agreement. This indemnification obligation shall not be construed to negate, abridge or reduce any other rights or remedies which otherwise may be available to an indemnified party or person described in this paragraph. This section does not pertain to any incident arising from the sole negligence of Collier County. |
| 4. <input checked="" type="checkbox"/> Automobile Liability | \$ 1,000,000 Each Occurrence Bodily Injury & Property Damage, Owned/Non-owned/Hired; Automobile Included |
| 5. <input type="checkbox"/> Other insurance as noted: | <input type="checkbox"/> Watercraft \$ _____ Per Occurrence
<input type="checkbox"/> United States Longshoreman's and Harborworker's Act coverage shall be maintained where applicable to the completion of the work.
\$ _____ Per Occurrence
<input type="checkbox"/> Maritime Coverage (Jones Act) shall be maintained where applicable to the completion of the work.
\$ _____ Per Occurrence
<input type="checkbox"/> Aircraft Liability coverage shall be carried in limits of not less than \$5,000,000 each occurrence if applicable to the completion of the Services under this Agreement.
\$ _____ Per Occurrence
<input type="checkbox"/> Pollution \$ _____ Per Occurrence
<input type="checkbox"/> Professional Liability \$ _____ Per Occurrence
<ul style="list-style-type: none"> • \$ 500,000 each claim and in the aggregate • \$ 1,000,000 each claim and in the aggregate • \$ 2,000,000 each claim and in the aggregate <input type="checkbox"/> Project Professional Liability \$ _____ Per Occurrence
<input type="checkbox"/> Valuable Papers Insurance \$ _____ Per Occurrence |

- 6. Vendor shall ensure that all subcontractors comply with the same insurance requirements that he is required to meet. The same Vendor shall provide County with certificates of insurance meeting the required insurance provisions.
- 7. Collier County must be named as "ADDITIONAL INSURED" on the Insurance Certificate for Commercial General Liability where required.
- 8. The Certificate Holder shall be named as Collier County Board of County Commissioners, OR, Board of County Commissioners in Collier County, OR Collier County Government, OR Collier County.
- 9. Thirty (30) Days Cancellation Notice required.

Vendor's Insurance Statement

We understand the insurance requirements of these specifications and that the evidence of insurability may be required within five (5) days of the award of this solicitation.

Name of Firm Forestry Resources Inc Date 2.17.11

Vendor Signature Kristine Magee

Print Name Kristine Magee

Insurance Agency Johnson + Company

Agent Name Marcy Telephone Number 239.997.4084

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/29/2010

PRODUCER 407.843.1120 Johnson & Company 801 N Orange Avenue Suite 510 Orlando, FL 32801		FAX 407.843.5772		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED FORESTRY RESOURCES, INC. 4353 MICHIGAN LINK FORT MYERS, FL. 33916		INSURERS AFFORDING COVERAGE		NAIC #	
		INSURER A: GRANITE STATE INSURANCE CO.		23809	
		INSURER B: NEW HAMPSHIRE INSURANCE CO.		23841	
		INSURER C: INSURANCE COMPANY OF THE WEST		27847	
		INSURER D:			
		INSURER E:			

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

INBR (CODE) LTR (CODE)	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR	02-LX-001112400-0	01/01/2011	01/01/2012	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC				
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	01-CA-003131130-0	01/01/2011	01/01/2012	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$				
B	EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000	01-UD-001112827-0 UMBRELLA FORM	01/01/2011	01/01/2012	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below	WFL5001001 02	01/01/2011	01/01/2012	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	OTHER CONTRACTORS EQUIPMENT SPECIAL FORM ALL RISK	02-LX-001112400-0	01/01/2011	01/01/2012	LEASED & RENTED \$375,000 SCHEDULED EQUIPMENT: \$1,355,000 DEDUCTIBLE: \$1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 Coverage is in place for the Forestry Resources, Inc. entire fleet.

CERTIFICATE HOLDER

CANCELLATION

Forestry Resources Inc. Forestry Resources Ecological, Inc. 4353 Michigan Link Fort Myers, FL	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE HEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL <u>30</u> DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE Joseph D. Johnson Jr. /BPOTTS <i>Joseph D. Johnson Jr.</i>
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ACORD 25 (2009/01)

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Attachment 4
Vendor Submittal - Local Vendor Preference
Affidavit

ITB 10-5588-R Purchase & Delivery of Fungicides, Pesticides & Herbicides

(Check Appropriate Boxes Below)

State of Florida (Select County if Vendor Is described as a Local Business

- Collier County
- Lee County

Vendor affirms that it is a local business as defined by the Purchasing Policy of the Collier County Board of County Commissioners and the Regulations Thereto. As defined in Section XI of the Collier County Purchasing Policy;

A "local business" is defined as a business that has a valid occupational license issued by either Collier or Lee County for a minimum of one (1) year prior to a Collier County bid or proposal submission that authorizes the business to provide the commodities or services to be purchased, and a physical business address located within the limits of Collier or Lee Counties from which the vendor operates or performs business. Post Office Boxes are not verifiable and shall not be used for the purpose of establishing said physical address. In addition to the foregoing, a vendor shall not be considered a "local business" unless it contributes to the economic development and well-being of either Collier or Lee County in a verifiable and measurable way. This may include, but not be limited to, the retention and expansion of employment opportunities, the support and increase to either Collier or Lee County's tax base, and residency of employees and principals of the business within Collier or Lee County. Vendors shall affirm in writing their compliance with the foregoing at the time of submitting their bid or proposal to be eligible for consideration as a "local business" under this section.

Vendor must complete the following information:

Year Business Established in Collier County or Lee County: 1983

Number of Employees (Including Owner(s) or Corporate Officers): 62

Number of Employees Living in Collier County or Lee (Including Owner(s) or Corporate Officers): 54

If requested by the County, vendor will be required to provide documentation substantiating the information given in this affidavit. Failure to do so will result in vendor's submission being deemed not applicable.

Vendor Name: Forestry Resources Inc Date: 2-17-11

Address in Collier or Lee County: 4353 Michigan Link Ft. Myers FL 33916
3927 Domestic Ave Naples, FL

Signature: Kristine Magee Title: Direct Sales

STATE OF FLORIDA
 COLLIER COUNTY LEE COUNTY

Sworn to and Subscribed Before Me, a Notary Public, for the above State and County, on this 17 Day of Feb, 2011.

Candice L. Freese
Notary Public

My Commission Expires: _____


(AFFIX OFFICIAL SEAL)



Attachment 5 Vendor Submittal - Immigration Affidavit

ITB 10-5588-R Purchase & Delivery of Fungicides, Pesticides & Herbicides

This Affidavit is required and should be signed, notarized by an authorized principal of the firm and submitted with formal Invitations to Bid (ITB's) and Request for Proposals (RFP) submittals. Failure to include this Affidavit with proposal will delay in the consideration and reviewing of vendor's proposals and could result in the vendor's proposal being deemed non-responsive.

Collier County will not intentionally award County contracts to any vendor who knowingly employs unauthorized alien workers, constituting a violation of the employment provision contained in 8 U.S.C. Section 1324 a(e) Section 274A(e) of the Immigration and Nationality Act ("INA").

Collier County may consider the employment by any vendor of unauthorized aliens a violation of Section 274A (e) of the INA. Such Violation by the recipient of the Employment Provisions contained in Section 274A (e) of the INA shall be grounds for unilateral termination of the contract by Collier County.

Vendor attests that they are fully compliant with all applicable immigration laws (specifically to the 1986 Immigration Act and subsequent Amendment(s)) and agrees to abide by Collier County Employment Eligibility Verification System requirements regarding this solicitation.

Company Name Forestry Resources Inc

Print Name Kristine Magee

Title Direct Sales

Signature Kristine Magee

Date 2.17.11

State of FL

County of Dee

The foregoing instrument was signed and acknowledged before me this 17th day of Feb, 2011, by

Kristine Magee who has produced

(Print or Type Name)
DL M200 519 65 7120 as identification.

(Type of Identification and Number)

Candice L. Freese
Notary Public Signature



Printed Name of Notary

Notary Commission Number/Expiration

The signee of this Affidavit guarantees, as evidenced by the sworn affidavit required herein, the truth and accuracy of this affidavit to interrogatories hereinafter made. Collier County reserves the right, at any time, to request supporting documentation as evidence of the vendor's compliance with this sworn affidavit.

20-2-10

FD159
Manufactured By

DIAMOND & FERTILIZER CO., INC.
121 N HENNIS RD/ W G FL 34707
800-310-3700 / 407-656-3007

DIA # 10-4 / 20-2-10 56-1
50lb

Guaranteed Analysis

Total Nitrogen (N)*	20.00
0.00% Nitrate Nitrogen	
0.00% Ammoniacal Nitrogen	
0.00% Water Sol Org Nit	
11.20% (And/Or Urea Nit)	
0.00% Water Insoluble Nit	
Available Phosphorus as P2O5	2.00
Soluble Potassium as K2O	10.00
Chlorine, Not More Than	9.01

Derived From: Urea,
Sulfur Coated Urea,
Sulfate Of Ammonia,
Diammonium Phosphate,
Muriate Of Potash,
Sulfate Of Potash-Magnesium.

5.35 Units - Slow Release W.S.O.N.*

Secondary and Micro Plant Foods:

Total Magnesium as Mg	0.50
Water Sol Magnesium as Mg	0.50
Water Sol Manganese as Mn	0.50
Water Soluble Iron as Fe	5.00
Iron as Fe (Chelated)	0.02

Derived From:
MANGANESE SUCCINATE,
IRON EDTA,
IRON OXIDE.

CAUTION: THIS MATERIAL CONTAINS:
Sulfate Of Potash-Magnesium,
BREATHING DUST MAY BE HARMFUL TO
RESPIRATORY SYSTEM!

FD159
Manufactured By

DIAMOND & FERTILIZER CO., INC.
121 N HENNIS RD/ W G FL 34707
800-310-3700 / 407-656-3007

DIA # 10-4 / 20-2-10 56-1
50lb

Guaranteed Analysis

Total Nitrogen (N)*	20.00
0.00% Nitrate Nitrogen	
0.00% Ammoniacal Nitrogen	
0.00% Water Sol Org Nit	
11.20% (And/Or Urea Nit)	
0.00% Water Insoluble Nit	
Available Phosphorus as P2O5	2.00
Soluble Potassium as K2O	10.00
Chlorine, Not More Than	9.01

Derived From: Urea,
Sulfur Coated Urea,
Sulfate Of Ammonia,
Diammonium Phosphate,
Muriate Of Potash,
Sulfate Of Potash-Magnesium

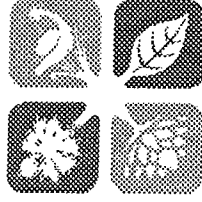
5.35 Units - Slow Release W.S.O.N.*

Secondary and Micro Plant Foods:

Total Magnesium as Mg	0.50
Water Sol Magnesium as Mg	0.50
Water Sol Manganese as Mn	0.50
Water Soluble Iron as Fe	5.00
Iron as Fe (Chelated)	0.02

Derived From:
MANGANESE SUCCINATE,
IRON EDTA,
IRON OXIDE.

CAUTION: THIS MATERIAL CONTAINS:
Sulfate Of Potash-Magnesium,
BREATHING DUST MAY BE HARMFUL TO
RESPIRATORY SYSTEM!



Forestry Resources Landscape Supply

Everything you need . . . DIRECT!

4353 Michigan Link, Ft. Myers 32919
(239) 332-3966

20-2-10

F1354	20-2-10	1137
Guaranteed Analysis		
Total Nitrogen (N) *		20.00
0.00% Nitrate Nitrogen		
8.80% Ammoniacal Nitrogen		
11.20% Other Water Soluble Nitro-		
gen (and/or Urea Nitrogen)		
0.00% Water Insoluble Nitrogen		
Available Phosphorus as P205	2.00	
Soluble Potassium as K20	10.00	
Chlorine, Not More Than	9.00	
Derived From: Ammonium Sulfate, Diammonium Phosphate, Urea, Polymer Sulfur Coated Urea, Muriate Of Potash, Sulfate Of Potash-Magnesia.		
*4.00% Slowly Available Nitrogen		
Secondary and Micro Plant Foods:		
Total Magnesium as Mg	0.50	
Water Sol Magnesium as Mg	0.50	
Total Manganese as Mn	0.50	
Water Sol Manganese as Mn	0.05	
Total Iron as Fe	5.00	
Iron as Fe (Chelated)	0.02	
Derived From:		
Sulfate Of Potash-Magnesia,		
Iron Oxide, Iron EDTA, Iron DTPA,		
Manganese Sucrante.		
		Net weight-50 lbs.

8-2-12

F0159
Manufactured By

DIAMOND R FERTILIZER CO., INC.
321 N KENNIS RD/ W O FL 34787
800-330-1700 / 407-656-3007

DIA # 10-4 / 8-2-12 94-1
50lb

Guaranteed Analysis

Total Nitrogen (N)*	8.00
0.00% Nitrate Nitrogen	
0.45% Ammoniacal Nitrogen	
0.25% Water Sol Org Nit	
6.05% (And/Or Urea Nit)	
1.25% Water Insoluble Nit	
Available Phosphorus as P2O5	2.00
Soluble Potassium as K2O	12.00
Chlorine, Not More Than	7.00

Derived From: Sulfur Coated Urea,
Diammonium Phosphate,
Activated Sludge,
Muriate Of Potash,
Sulfate Of Potash,
Sulfate Of Potash-Magnesium.

5.65 Units - Slow Release W.S.O.N.*

Secondary and Micro Plant Foods:

Total Magnesium as Mg	2.00
Water Sol Magnesium as Mg	2.00
Water Sol Manganese as Mn	2.00
Total Copper as Cu	0.06
Water Soluble Copper as Cu	0.15
Total Iron as Fe	5.00
Water Soluble Iron as Fe	4.79
Total Zinc as Zn	0.14
Water Soluble Zinc as Zn	0.15
Boron as B	0.06
Molybdenum as Mo	0.001

Derived From:
MANGANESE SUCCRATE,
IRON OXIDE,
Borax,
Copper Sulfate,
MANGANESE SULFATE,
Sodium Molybdate,
Iron Sulfate.

CAUTION: THIS MATERIAL CONTAINS:
Sulfate Of Potash-Magnesium,
Copper Sulfate.
BREATHING DUST MAY BE HARMFUL TO
RESPIRATORY SYSTEM!

F0159
Manufactured By

DIAMOND R FERTILIZER CO., INC.
321 N KENNIS RD/ W O FL 34787
800-330-1700 / 407-656-3007

DIA # 10-4 / 8-2-12 94-1
50lb

Guaranteed Analysis

Total Nitrogen (N)*	8.00
0.00% Nitrate Nitrogen	
0.45% Ammoniacal Nitrogen	
0.25% Water Sol Org Nit	
6.05% (And/Or Urea Nit)	
1.25% Water Insoluble Nit	
Available Phosphorus as P2O5	2.00
Soluble Potassium as K2O	12.00
Chlorine, Not More Than	7.00

Derived From: Sulfur Coated Urea,
Diammonium Phosphate,
Activated Sludge,
Muriate Of Potash,
Sulfate Of Potash,
Sulfate Of Potash-Magnesium.

5.65 Units - Slow Release W.S.O.N.*

Secondary and Micro Plant Foods:

Total Magnesium as Mg	2.00
Water Sol Magnesium as Mg	2.00
Water Sol Manganese as Mn	2.00
Total Copper as Cu	0.06
Water Soluble Copper as Cu	0.15
Total Iron as Fe	5.00
Water Soluble Iron as Fe	4.79
Total Zinc as Zn	0.14
Water Soluble Zinc as Zn	0.15
Boron as B	0.06
Molybdenum as Mo	0.001

Derived From:
MANGANESE SUCCRATE,
IRON OXIDE,
Borax,
Copper Sulfate,
MANGANESE SULFATE,
Sodium Molybdate,
Iron Sulfate.

CAUTION: THIS MATERIAL CONTAINS:
Sulfate Of Potash-Magnesium,
Copper Sulfate.
BREATHING DUST MAY BE HARMFUL TO
RESPIRATORY SYSTEM!

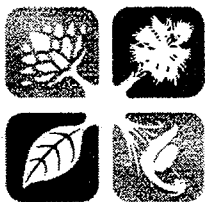
F1354

8-2-12

1795

Guaranteed Analysis

Total Nitrogen (N)*	8.00
0.00% Nitrate Nitrogen	
2.20% Ammoniacal Nitrogen	
4.60% Other water Soluble Nitro- gen (and/or Urea Nitrogen)	
1.20% Water Insoluble Nitrogen	
Available Phosphorus as P205	2.00
Soluble Potassium as K2O	12.00
Chlorine, Not More Than	7.98
Derived From: Ammonium Sulfate, Diammonium Phosphate, Activated Sludge, Polymer Sulfur Coated Urea, Muriate Of Potash, Sulfate Of Potash, Sulfate Of Potash-Magnesia.	
*4.86% Slowly Available Nitrogen	
Secondary and Micro Plant Foods:	
Total Magnesium as Mg	2.00
Water Sol Magnesium as Mg	2.00
Total Manganese as Mn	2.00
Water Sol Manganese as Mn	0.18
Total Copper as Cu	0.06
Total Iron as Fe	5.00
Total Zinc as Zn	0.14
Boron as B	0.06
Derived From:	
Sulfate Of Potash-Magnesia, Iron Oxide, Manganese Oxide, Zinc Oxide, Copper Oxide, Sodium Borate, Manganese Sulfate.	
Net weight--50 lbs.	



Forestry Resources
Landscape Supply

Everything you need . . . DIRECT!

4353 Michigan Link, Ft. Myers 32919
 (239) 332-3966

8-2-12

Syngenta Crop Protection, Inc.
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call
1-800-888-8372

1. PRODUCT IDENTIFICATION

Product Name: **BANNER MAXX** Product No.: A6780D
 EPA Signal Word: Warning
 Active Ingredient(%): Propiconazole (14.3%) CAS No.: 60207-90-1
 Chemical Name: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
 Chemical Class: Triazole Derivative Fungicide
 EPA Registration Number(s): 100-741 **Section(s) Revised: 2, 8, 11**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Tetrahydrofurfuryl Alcohol (THFA)	Not Established	Not Established	2 ppm (TWA)****	No
Propiconazole (14.3%)	Not Established	Not Established	10 mg/m ³ TWA ***	No

*** Syngenta Occupational Exposure Limit (OEL)

**** Recommended by AIHA (American Industrial Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
 Syngenta Hazard Category: B, S

3. HAZARDS IDENTIFICATION
Symptoms of Acute Exposure

May be irritating to eyes and respiratory tract.

Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Yellow to orange liquid

Odor: Aromatic solvent

Unusual Fire, Explosion and Reactivity Hazards

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-

888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Medical Condition Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method):	181°F (Setaflash)	
Flammable Limits (% in Air):	Lower: % Not Applicable	Upper: % Not Applicable
Autoignition Temperature:	Not Available	
Flammability:	Combustible liquid	

Unusual Fire, Explosion and Reactivity Hazards

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use appropriate extinguishing media for combustibles in the area. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for

exposure to the material. Wash thoroughly with soap and water after handling.

- Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.
- Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Yellow to orange liquid
- Odor: Aromatic solvent
- Melting Point: Not Applicable
- Boiling Point: 331°F (166°C)
- Specific Gravity/Density: 1.09 g/ml
- pH: 5 - 8 (10% emulsion in H₂O)

Solubility in H₂O

- Propiconazole: 0.1 g/l @ 68°F (20°C)

Vapor Pressure

- Propiconazole: 4.2 x 10⁽⁻⁷⁾ mmHg @ 77°F (25°C)

10. STABILITY AND REACTIVITY

- Stability: Stable under normal use and storage conditions.
- Hazardous Polymerization: Will not occur.
- Conditions to Avoid: Flame, heat, ignition sources.
- Materials to Avoid: Strong oxidizers.
- Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

- Ingestion: Slightly Toxic
Oral (LD₅₀ Rat) : 4,340 mg/kg body weight
- Dermal: Slightly Toxic
Dermal (LD₅₀ Rabbit) : > 2,020 mg/kg body weight
- Inhalation: Practically Non-Toxic
Inhalation (LC₅₀ Rat) : > 2.6 mg/l air - 4 hours
- Eye Contact: Moderately Irritating (Rabbit)
- Skin Contact: Non-Irritating (Rabbit)
- Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects

- Propiconazole: None observed.

Chronic/Subchronic Toxicity Studies

- Propiconazole: None observed.

Carcinogenicity

- Propiconazole: Increased incidence of liver tumors at extremely high doses (male mice).

Other Toxicity Information

None

Toxicity of Other Components

Tetrahydrofurfuryl Alcohol (THFA)

Inhalation of vapors at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract. Chronic overexposure may affect the kidney.

Target Organs

Active Ingredients

Propiconazole: Liver

Inert Ingredients

Tetrahydrofurfuryl Alcohol (THFA): CNS, Kidney

12. ECOLOGICAL INFORMATION

Summary of Effects

Propiconazole:

Moderately toxic to fish and invertebrates. Practically non-toxic to birds and bees.

Eco-Acute Toxicity

Propiconazole:

Bees LC50/EC50 > 25 ug/bee

Invertebrates (Water Flea) LC50/EC50 3.2 - 10.2 ppm

Fish (Trout) LC50/EC50 4.3 ppm

Fish (Bluegill) LC50/EC50 5.7 - 6.4 ppm

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,620 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50 > 5,620 ppm

Eco-Chronic Toxicity

Propiconazole:

Fish (Fathead minnow) Early Life Stage MATC > 0.43 and < 0.97 mg/l

Invertebrate (Daphnia Magna) Life Cycle MATC > 0.31 and < 0.69 mg/l

Mallard Reproduction NOEC 300 ppm

Bobwhite Reproduction NOEC 1,000 ppm

Environmental Fate

Propiconazole:

The information presented here is for the active ingredient, propiconazole.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Low mobility in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Non-Bulk Containers (<= 119 gal. cap.): Not regulated.

Bulk Containers (> 119 gal. cap.):

Proper Shipping Name: Combustible liquid, N.O.S. (tetrahydrofurfuryl alcohol)

Identification Number: NA1993

Packing Group: PGIII

B/L Freight Classification

Fungicides, NOI O/T poison

Comments

None.

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard
Fire Hazard

Section 313 Toxic Chemicals: Propiconazole (14.3%) (CAS No. 60207-90-1)

California Proposition 65

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 2
Instability: 0

HMIS Hazard Ratings

Health: 1
Flammability: 2
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 07/24/1995

Revision Date: 03/14/2005

Replaces: 05/17/2004

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

RSVP# : SCP-955-741B-00101K

End of MSDS

PULL HERE TO OPEN ►



Banner MAXX[®]

Fungicide

Broad spectrum and systemic disease control for turf and ornamentals

Active Ingredient:

Propiconazole: (CAS No. 60207-90-1) 14.3%

Other Ingredients: 85.7%

Total: 100.0%

Banner MAXX contains a nominal 1.3 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-741

EPA Est. 39578-TX-1

Product of Switzerland
Formulated in the USA

SCP 741B-L3F 0905

1 gallon

Net Contents

syngenta

Banner MAXX®

FIRST AID	
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN If ingested, induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial, but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an 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, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems or enclosed cabs in a manner that meets the 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 WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is 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. Do not contaminate water when disposing of equipment wash waters.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

IT IS SYNGENTA'S AND SELLER'S INTENTION THAT in no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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, decontamination, 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 only 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 24 hours.

PPE required for early entry to treated areas 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:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place. Store in the original container.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used 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 in proper disposal methods.

Container Disposal

Plastic Containers

Do not reuse empty container. 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.

Returnable Refillable Containers

If Banner MAXX is packaged in a returnable refillable container, then, after use, do not rinse container. The contents of this container cannot be completely removed by cleaning. Return container intact to point of purchase.

This container must only be refilled with Banner MAXX. Refilling with materials other than Banner MAXX will result in contamination and may weaken container. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Before refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn threads on closure devices. Check for leaks after refilling and before transport. Do not refill or transport a damaged or leaking container.

For Bulk and Minibulk Containers

Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

GENERAL INFORMATION

Banner MAXX is a systemic fungicide for use on turfgrasses for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Laetisaria fuciformis*), pink patch (*Limonomyces roseipellis*), rust (*Puccinia graminis*), powdery mildew (*Erysiphe graminis*), stripe smut (*Ustilago striiformis* and *Urocystis agropyri*), summer patch (*Magnaporthe poae*), necrotic ring spot (*Leptosphaeria korrae*), spring dead spot (*Leptosphaeria korrae*, *Leptosphaeria narmari*, *Ophiosphaerella herpotricha*, *Gaeumannomyces graminis*), take-all patch (*Gaeumannomyces graminis*), leafspot (*Bipolaris* spp., *Drechslera* spp.), gray leafspot (*Pyricularia grisea*), pink snowmold (*Microdochium nivale*), Fusarium patch (*Fusarium nivale*), gray snowmold (*Typhula* spp.), yellow patch (*Rhizoctonia cerealis*), and zoysia patch (*Rhizoctonia solani*).

Banner MAXX also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews, rusts, leafspots, scabs, and blights. Refer to the appropriate section for specified diseases and plants.

- Do not apply more than 5.4 gals. of Banner MAXX/Acre/calendar year.
- Do not apply this product through any type of irrigation system.
- Do not use Banner MAXX as a tree injection.
- Do not use Banner MAXX in greenhouses.

MIXING INSTRUCTIONS

Fill the spray tank $1/2$ - $3/4$ full with water. Add the proper amount of Banner MAXX and then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

If Banner MAXX is tank mixed with other products, use the following sequence:

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of Banner MAXX, other chemicals to be used, and the water, before mixing in the spray tank.
2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
3. Fill tank at least $1/2$ full of clean water.
4. Add wettable powders to the tank first, allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank.

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5. Add flowables or suspensions next.
6. Add Banner MAXX next.
7. Add emulsifiable concentrates last.
8. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

Tank Mixes

For broader spectrum control, Banner MAXX can be tank mixed with other fungicides. For example, Subdue MAXX® may be tank mixed with Banner MAXX or used alone when conditions are favorable for Pythium blight. Banner MAXX is also compatible with numerous herbicides and insecticides. Check compatibility before tank mixing. Add Unite® (3 pts./100 gals.) to tank mixes which are incompatible. Follow the directions under **Mixing Instructions** for tank mixes. Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

TURFGRASS AND DICHONDRA DISEASE CONTROL

1. USE BANNER MAXX IN A PREVENTATIVE DISEASE CONTROL PROGRAM.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing **OR** allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For control of soil-borne diseases, Banner MAXX can be watered in after application.
6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
7. For optimum turf quality and disease control, use Banner MAXX in conjunction with turf management practices that promote good plant health and optimum disease control.
8. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
9. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
10. Do not apply more than 16 fl. oz./1,000 ft.²/calendar year.

IMPORTANT: Bermudagrass can be sensitive to Banner MAXX. Do not exceed 4 fl. oz./1,000 sq. ft. every 30 days on any variety of bermudagrass. In FL, do not apply Banner MAXX to bermudagrass golf course greens when temperatures exceed 90°F.

NOTE: Do not graze animals on treated areas. Do not feed clippings from treated areas to livestock or poultry.

Turfgrass – Specific Diseases, Rates, and Application Timing

Disease	Fl. Oz. per 1,000 sq. ft.	Fl. Oz. per Acre	Application Interval/ Timing	Instructions
Dollar Spot <i>(Sclerotinia homoeocarpa)</i>	0.5	22	7 days	Apply when conditions are favorable for disease development.
	0.5	22	14 days	Tank mix with low label rate of one of the following fungicides: Daconil Weather Stik®, Daconil Ultrex®.
	1	44	21-28 days	Tank mix with low label rate of one of the following fungicides: Daconil Weather Stik® Daconil Ultrex Chipco® 26019
	1-2	44-88	14-28 days	If using the 1-2 fl. oz./1,000 sq. ft. rate without tank mixing, make no more than 3 consecutive applications for dollar spot control before rotating to an alternate EPA-registered fungicide having a different mode of action.
Anthracnose <i>(Colletotrichum graminicola)</i>	1-2	44-88	14-28 days	Apply when conditions are favorable for disease development. When disease pressure is high, use higher rates of Banner MAXX and shorter intervals. For broad spectrum control, tank mix with a registered contact fungicide at the label rate. If disease is present, mix 2 fl. oz. of Banner MAXX per 1,000 sq. ft. with the label rate of the above mentioned contact fungicides.

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Disease	Fl. Oz. per 1,000 sq. ft.	Fl. Oz. per Acre	Application Interval/ Timing	Instructions
Brown Patch (<i>Rhizoctonia solani</i>)	1-2	44-88	14-21 days	Begin applications in May or June before disease is present. Tank mix with a registered contact fungicide labeled for brown patch control at the label rate. Under conditions of high temperatures and high humidity, use the higher rates of Banner MAXX and shorter intervals.
Powdery Mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia graminis</i>)	1-2	44-88	14-28 days	Apply when conditions are favorable for disease development. If disease is present, use 2 fl. oz. of Banner MAXX per 1,000 sq. ft.
Red Thread (<i>Laetisaria fuciformis</i>) Pink Patch (<i>Limonomyces rosei pellis</i>)	2	88	14-21 days	Apply when conditions are favorable for disease development.
Stripe Smut (<i>Ustilago striiformis</i>) (<i>Urocystis agropyri</i>)	1-2	44-88	Fall or Spring	Apply once in the fall after grass becomes dormant or in the early spring before grass starts to grow.
Gray Leafspot (<i>Pyricularia grisea</i>)	1-2	44-88	14 days	Apply when conditions are favorable for disease development. If using the 1 fl. oz./1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate.
Melting Out Leaf Spot (<i>Bipolaris</i> spp.) (<i>Drechslera</i> spp.)	1-2	44-176	14 days	Under light to moderate pressure, apply Banner MAXX to reduce the severity of leaf spot and melting out. For broad spectrum disease control, tank mix the 1 fl. oz. Banner MAXX with a registered contact fungicide at the label rate. Tank mix the 1-2 fl. oz./1,000 sq. ft. Banner MAXX rate with a registered contact fungicide at the label rates.
Summer Patch Poa Patch (<i>Magnaporthe poae</i>)	2 4	88 176	14 days 28 days	Apply Banner MAXX beginning in April. Use the 4 fl. oz./1,000 sq. ft. rate on a 28-day schedule and the 2 fl. oz./1,000 sq. ft. rate on a 14-day schedule.
Take-All Patch (<i>Gaeumannomyces graminis</i>)	2-4	88-176	Spring and Fall	Apply Banner MAXX to reduce the severity of take-all patch. Make 1-2 fall applications in September and October or when night temperatures drop to 55° F, and 1-2 spring applications in April and May, depending on local recommendations.
Spring Dead Spot (<i>Leptosphaeria korrae</i> , <i>Leptosphaeria narmari</i> , <i>Ophiosphaerella herpotricha</i> , <i>Gaeumannomyces graminis</i>)	4	176	30 days	Make 1-3 applications. For one application, apply in September or October. For multiple applications, begin sprays in August.
Necrotic Ring Spot (<i>Leptosphaeria korrae</i>)	4	176	Fall or Spring	Apply in the fall and/or the early spring depending on local recommendations.
Snowmold Gray (<i>Typhula</i> spp.) Pink (<i>Microdochium nivale</i>)	2-4	88-176	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow. For optimum disease control, the 2 and 3 fl. oz. Banner MAXX rates should be tank mixed with either PCNB or chlorothalonil at label rates.

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Disease	Fl. Oz. per 1,000 sq. ft.	Fl. Oz. per Acre	Application Interval/ Timing	Instructions
Fusarium patch (<i>Fusarium nivale</i>)	2-4	88-176	Fall-Early Spring	Apply when conditions are favorable for disease development.
Yellow patch (<i>Rhizoctonia cerealis</i>)	3-4	130-176	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow. If using a 3 fl. oz./1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate.
Zoysia patch, large patch of zoysia (<i>Rhizoctonia solani</i>)	3-4	130-176	Early Fall	Make one application in the early fall (mid-September to mid-October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine the optimum application timing for your area.

Dichondra – Specific Disease, Rate, and Application Timing

Disease	Fl. Oz. per 1,000 sq. ft.	Fl. Oz. per Acre	Application Interval/ Timing	Instructions
Dichondra Rust (<i>Puccinia dichondrae</i>)	2	88	14-21 days	Apply when conditions are favorable for disease development.

Establishment of Cool Season Turfgrass

Banner MAXX provides control of many diseases of turf, and its primary use is as a fungicide for use against the diseases listed on this label. As an additional benefit, Banner MAXX will improve the rate of establishment when it is applied to cool season grass seedlings or sod.

New Seedlings: Apply 1 fl. oz./1,000 sq. ft. at the 2 to 3-leaf stage of growth for faster root development and top growth.

Sod: Apply 1 fl. oz./1,000 sq. ft. 2-6 weeks before cutting for increased sod knitting and faster establishment after laying.

Disease Control in Nurseries (Field) and Landscape Plantings

1. USE BANNER MAXX IN A PREVENTATIVE DISEASE CONTROL PROGRAM. To determine the use directions for controlling a disease on an ornamental plant species, select the plant species in Table 1. The number in parentheses following the plant species refers you to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers you to the application regime in Table 3.
2. Allow spray to dry before overhead irrigation is applied.
3. Optimum benefit of Banner MAXX is obtained when used in conjunction with sound disease management practices.

General Recommendations

Banner MAXX may be used at rates of 2-24 fl. oz./100 gals. water for control of diseases of ornamental plant species (see Tables 1, 2, and 3).

NOTE: For outdoor uses, you can apply up to 5.4 gallons of Banner MAXX/acre/crop/calendar year.

For general disease control in landscapes, apply 6-8 fl. oz./100 gals. water every 21 days. For best control, begin Banner MAXX applications before disease development.

Note: Plant tolerances to Banner MAXX have been found acceptable for the specific genera and species of plants listed under the **Directions for Use**. Other plant species may be sensitive to Banner MAXX and diseases other than those listed may not be controlled. Before using Banner MAXX on plants or for diseases that are not listed in the **Directions for Use**, test Banner MAXX on a small scale basis first. Do not apply Banner MAXX to African violets, begonias, Boston fern, or geraniums. Apply the recommended rates for a particular type of disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to widespread use.

Table 1. Ornamentals – Plant Species

Numbers in parentheses refer to diseases controlled. See Table 2.

Herbaceous Ornamental	Woody Ornamental	Non-bearing Fruits and Nuts (Nurseries and Landscape Plantings)
Calendula (4a) Carnation (5f) Chrysanthemum (2a) Delphinium (4a) English Ivy (3e) Gomphrena (3a) Impatiens (3a, 3b, 4a) Iris (5d) Marigold (3a) Monarda (4c) Phlox (4c) Snapdragon (5d) Sweet William (3k) <i>(Dianthus barbatus)</i> Zinnia (4c)	Amelanchier (4d) Ash (4c) Azalea (2c, 4b) Bayberry (3n) Camellia (3e) Cotoneaster (3i) Crabapple (3c, 3q, 4c, 5a) Crape Myrtle (4a) Dogwood (3h, 4c) Douglas Fir (5b) Elm (4c) Euonymus (3e, 4c) Hawthorn (5a) Holly (3r) Juniper (1a) Lilac (4c) Linden (3e, 3b, 4b) Magnolia (3e, 4b) Maple (3e, 4f) Oaks (3p) Pines (1b, 1c) Poplars (5b) Pyracantha (3o) Red Tip Photinia (3i) Rhamphiolepis (3e, 3i) Rhododendron (2c, 3n) Roses (3g, 4e, 5c) (Outdoor Use Only) Shasta Fir (5e) Sweetgum (3b, 3c, 3n) Sycamore (3e) Tulip tree (3e, 4a) Wax myrtle (3n)	Apple (3q, 4d, 5a) Bartlett pear (3q, 4c, 5a) Cherry (2b, 3d) Citrus (3m) Nectarine (2b) Peach (2b) Pecan (3b, 3c, 3f, 3l, 3n, 4e) Plum (2b) Walnut (3j)

Table 2. Diseases

Letters in brackets refer to application regimes. See Table 3.

1. Conifer Blights
 - a. *Phomopsis juniperovora* (Phomopsis Blight) [B]
 - b. *Sirococcus strobilinus* (Tip Blight) [D]
 - c. *Sphaeropsis sapinea* (Diplodia Tip Blight) [B]
2. Flower Blight
 - a. *Ascochyta chrysanthemi* (Ray Blight) [C]
 - b. *Monilinia* spp. [A]
 - c. *Ovulinia* spp. [B]
3. Leaf Blights/Spots
 - a. *Alternaria* spp. [B]
 - b. *Cercospora* spp. (Brown Leaf Spot) [C]
 - c. *Cladosporium* spp. (Scab) [C]
 - d. *Coccomyces hiemalis* [A]
 - e. *Collectrichum* spp. [B]
 - f. *Cristulariella* spp. (Zonate leafspot) [C]
 - g. *Diplocarpon rosae* (Blackspot) [B]
 - h. *Discula* spp. (Anthracnose) [A]
 - i. *Fabraea maculata* (syn. *Entomosporium maculata*) [B]
 - j. *Gnomonia leptostyla* (Anthracnose) [C]
 - k. *Heterosporium echinulatum* [B]
 - l. *Mycosphaerella caryigena* (Downy Spot) [C]
 - m. *Mycosphaerella fructicola* (Greasy Spot) [E]
 - n. *Septoria* spp. (Leaf Scorch) [C]
 - o. *Spilocaea pyracanthae* [B]
 - p. *Tubakia dryina* [D]
 - q. *Venturia inaequalis* (Scab) [A]
 - r. *Rhizoctonia* web blight [B]

Banner MAXX®

4. Powdery Mildew
 - a. *Erysiphe* spp. [B]
 - b. *Microsphaera* spp. [C]
 - c. *Oidium* spp. [B]
 - d. *Podosphaera* spp. [B]
 - e. *Sphaerotheca pannosa* [B]
 - f. *Phyllactinia* spp. [B]
5. Rust
 - a. *Gymnosporangium juniperi-virginianae* [A]
 - b. *Melampsora occidentalis* [D]
 - c. *Phragmidium* spp. [B]
 - d. *Puccinia* spp. [B]
 - e. *Pucciniastrum goeppertianum* [D]
 - f. *Uromyces dianthi* [B]

Table 3. Application Regimes

- [A] Mix 2-4 fl. oz. of Banner MAXX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-21 days during the period of primary infection. If disease is present, tank mix with an EPA-registered contact fungicide. For flower blight, apply Banner MAXX when there is 5-10% bloom and again at 70-100% bloom. For dogwoods, apply the 2-4 fl. oz. rate every 14 days, or apply 8 fl. oz. of Banner MAXX every 28 days.
- [B] Mix 5-8 fl. oz. of Banner MAXX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply as needed, beginning when conditions are favorable for disease development. For blackspot, apply with a registered contact fungicide labeled for blackspot. For Calendula, apply every 30 days. For diplodia tip blight, make 3 applications every 14 days prior to major period of infection. For juniper phomopsis blight, make first application as soon as junipers start to grow, and repeat the applications every 14-21 days during periods of active growth.
- [C] Mix 8-12 fl. oz. of Banner MAXX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 30 days, beginning when conditions are favorable for disease development. For pecans, apply the 12 fl. oz. rate beginning at bud break. Apply 3 times on 14-day intervals. For walnuts, apply 8.5 fl. oz. at 14-21 day intervals. For ray blight, apply 12 fl. oz. at 7-day intervals or 20 fl. oz. at 14-day intervals. For impatiens, bayberry, linden, magnolia, sweetgum and wax myrtle, the maximum use rate is 8 fl. oz.
- [D] Mix 16 fl. oz. of Banner MAXX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-28 days, beginning when conditions are favorable for disease development. For Douglas fir needle rust, apply once in May. For tip blight, initial application is in mid-late winter, and apply 3 times at 2-month intervals.
- [E] Mix 20-24 fl. oz. of Banner MAXX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply during June to August time period.

Note: To avoid possible illegal residues, do not apply to apple, Bartlett pear, cherry, citrus, nectarine, peach, pecan, plum, or walnut trees that will bear harvestable fruit within 12 months.

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For non-emergency (e.g., current product information) call Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 741B-L3F 0905



Fungicide

Broad spectrum and systemic disease control for turf and ornamentals

Active Ingredient:

Propiconazole: (CAS No. 60207-90-1) . . . 14.3%

Other Ingredients: 85.7%

Total: 100.0%

Banner MAXX contains a nominal 1.3 pounds of active ingredient per gallon.

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-741

EPA Est. 39578-TX-1

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Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 741B-L3F 0905

1 gallon
Net Contents

KEEP OUT OF REACH OF CHILDREN. WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: If ingested, induce emesis or lavage stomach. Treat symptomatically.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER: For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372.

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes substantial, but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist.

Environmental Hazards

This pesticide is 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. Do not contaminate water when disposing of equipment wash waters.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

Chemigation

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

syngenta



Bayleton® 50

Turf and Ornamental Fungicide in Water Soluble Packets Systemic Fungicide

For control of certain diseases on flowers, foliage plants, shrubs, turf and shade trees. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1 <i>H</i> -1,2,4-triazol-1-yl)-2-butanone	50%
INERT INGREDIENTS	50%
	100%

Keep water soluble packets in this container and store in a cool place but not below freezing (32°F). Sell in original packages only.

SELL IN ORIGINAL PACKAGES ONLY

U. S. Patent No. 3,912,752
EPA Reg. No. 432-1360

CONTAINS ____ 5.5 OUNCE WATER SOLUBLE PACKETS
Total Net Contents:

STOP - Read The Label Before Use
KEEP OUT OF REACH OF CHILDREN
CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. (TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call 1-800-334-9745

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told t by a poison control center or doctor.
If in eyes:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by hyperactivity followed by sedation.

To Physician: No specific antidote. Treat symptomatically.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid breathing dust or spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside.
- Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

Apply this product only as specified on this label.

Groundwater Advisory: This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not make applications when weather conditions favor drift from target area.

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, decontamination, 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 only 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.

PPE required for early entry to treated areas 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:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

APPLICATION: BAYLETON fungicide is absorbed rapidly and works systemically from within the plant. Good coverage and wetting of the foliage are necessary. Rainfall or sprinkler irrigation, within 30 minutes after application does not decrease effectiveness. Control may be less effective on plants suffering from drought stress. Therefore, in order to achieve maximum control, plants should be maintained in a vigorously growing state through good cultural practices.

In all cases apply when plants are fully established and actively growing. Applications should be made at recommended intervals to maintain disease control.

BAYLETON 50 Turf and Ornamental Fungicide can be tank-mixed with Prostar 50WP for use on turf in accordance with the more (most) restrictive of label limitations and precautions. No label dosage rates should be exceeded.

This product cannot be mixed with any product containing a label prohibition against such mixing.

Do not use on crops grown for food or forage.

MIXING: The enclosed packets containing Bayleton 50 Turf and Ornamental Fungicide are water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle with wet hands. Reseal outer carton to protect remaining packets.

To prepare the spray mixture, drop the required number of unopened packets, as determined under "Recommended Applications", into the spray tank while filling the water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within a few minutes from the time they were added to the water.

CAUTION: Do not use BAYLETON 50 Turf and Ornamental Fungicide packets in a tank-mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic which is not soluble in water or solvents such as diesel oils, kerosene, gasoline or alcohol. Use of chlorinated water is acceptable. Do not attempt to use the PVA packets directly in liquid fertilizer, diesel oils or summer spray type oils as in ULV or LV uses. PVA Packets are water soluble not fertilizer or oil soluble. If liquid fertilizer or oils are to be added to the mix water, add BAYLETON packets first and wait until they are dissolved before adding liquid fertilizer or oil.

USE IN CHEMIGATION SYSTEMS ON TURF ONLY

Apply BAYLETON 50 Turf and Ornamental Fungicide only through solid set irrigation systems. Do not apply this product through any other type of irrigation system.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the areas intended for treatment.

Turf injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Pre-mix the required amount of BAYLETON 50 Turf and Ornamental Fungicide, as determined under "Recommended Applications", in sufficient water to uniformly inject the entire mixture during the last 5 minutes of the irrigation cycle using a positive pressure pumping system. Continuous agitation of the mixture in the holding tank is required to maintain suspension of the product. The injection must occur during the last 5 minutes of the irrigation cycle.

RECOMMENDED APPLICATIONS — TURFGRASS DISEASE CONTROL

DISEASE	OZ OF BAYLETON 50 TURF AND ORNAMENTAL PER 1,000 SQUARE FEET*		REMARKS
	Preventive	Curative	
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	0.5	-	PREVENTIVE RATE: Apply recommended rate at 30-day intervals. Protective activity of BAYLETON may extend for as long as 60 days, depending upon environmental conditions.
	0.25	-	PREVENTIVE RATE (Except California): Apply recommended rate on 14-day intervals. Protective activity of BAYLETON may extend for as long as 30 days dependent upon environmental conditions.
	-	1	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Brown Patch/Rhizoctonia Blight (<i>Rhizoctonia solani</i>) (Suppression) Copper Spot (<i>Gloeocercospora sorghi</i>) Corticium Red Thread (<i>Laetisaria fuciformis</i>) Powdery Mildew (<i>Erysiphe graminis</i>) Rusts (<i>Puccinia</i> spp.)	0.5	1	PREVENTIVE RATE: Apply at 15- to 30-day intervals. When environmental conditions favor light to moderate disease development, use a longer interval. Protective activity of BAYLETON can be greater than 30 days depending on environmental conditions. CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Brown Patch/Rhizoctonia Blight (<i>Rhizoctonia solani</i>) (Recommendation for tank-mix with Prostar 70WP)	0.5	0.5	PREVENTIVE RATE: Tank-mix with Prostar 70WP and apply on a 21- to 28-day schedule. Follow use directions and restrictions on Prostar 70WP label with tank-mixing. CURATIVE RATE: To control existing infections, tank-mix BAYLETON 50 with the curative rate of Prostar 70WP. Subsequent applications should be applied on a preventive schedule using the preventive rate of Prostar 70WP.
Anthracnose (<i>Colletotrichum graminicola</i>)	1	-	PREVENTIVE RATE: Apply at 30-day intervals and repeat as necessary for seasonal control. Depending upon environmental conditions, residual control may be extended to 45 days.
	-	1	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Southern Blight (<i>Sclerotium rolfsii</i>)	0.5 to 2	2	PREVENTIVE RATE: Begin applications prior to the appearance of disease symptoms. Depending on anticipated disease severity, apply 1 to 2 oz rates at 14-day intervals for the initial 2 to 3 treatments. Apply subsequent treatments of 0.5 to 1.2 oz at 14- to 28-day intervals. CURATIVE RATE: To control existing infections, apply 2 oz at 14-day intervals for the initial 2 to 3 treatments followed by 0.5 to 1 oz at 14- to 28-day intervals.
Gray Leaf Spot	Preventive Rates Only 0.5 - 1		Apply when conditions are favorable for disease development on 14-day intervals. If using 0.5 oz/1000 sq.ft., or under conditions favoring moderate to heavy disease pressure, Bayleton should be tank mixed with a registered contact fungicide at label rate.

RECOMMENDED APPLICATIONS — TURFGRASS DISEASE CONTROL

DISEASE	OZ OF BAYLETON 50 TURF AND ORNAMENTAL PER 1,000 SQUARE FEET*		REMARKS
Stripe Smut (<i>Ustilago striiformis</i>)	1		Make the first application in the spring just before the turf breaks dormancy, followed by a second application just prior to the summer heat stress period and a third application when the cool nighttime temperatures of the late summer or early fall return.
Fusarium Blight (<i>Fusarium culmorum</i>) (<i>Fusarium poae</i>) Summer Patch (<i>Magnaporthe poae</i>)	1 to 2		Apply first application in the Spring, 30 to 60 days before initial symptoms normally appear. Repeat applications at 30-day intervals as needed.
Zoysia patch, Large patch of zoysia (<i>Rhizoctonia solani</i>)	1 to 2		Make first application in early fall (mid-September to mid-October) prior to development of disease symptoms. A second application in early spring may be necessary in areas where disease pressure is known to be heavy.
Bermudagrass decline (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>) Take all patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>) (Except California)	Preventive 1 to 2	Curative 2	Immediately after the fungicide is applied, the area should be thoroughly irrigated to move the active ingredient down into the crown and root zone of the turf. The amount of water is dependent on the depth of the root zone. The objective is to water the fungicide into the crown and root zone. PREVENTIVE RATE: Begin applications prior to the appearance of disease symptoms. Initiate cultural control practices at the same time the fungicide is applied. Refer to your local County Extension Service for this information. Apply subsequent applications at 21- to 28-day intervals. For take all patch, applications in both spring and fall may be necessary. CURATIVE RATE: To control existing infections, apply 2 oz for the initial treatment followed by 1 to 2 oz at 21- to 28-day intervals. Cultural control practices such as aerification, topdressing, reseeding, and fertilization should be implemented prior to or at the same time the fungicide is applied. Refer to your local County Extension Service for this information.
Gray Snow Mold/Typhula Blight (<i>Typhula incarnata</i>) (Except California)	Preventive Rates Only 2		Apply in the fall, 30 days prior to turf dormancy. If turf breaks dormancy during winter months, a second application should be made. Do not apply over snow cover, or when turf is dormant.
Pink Snow Mold/Fusarium Patch (<i>Microdochium nivalis</i>) (Except California)	1 to 2		Apply before conditions favorable for infection occur. Re-application should be made as needed at a 60- to 90-day interval. Do not apply over snowcover, or when turf is dormant. Use higher rate in areas with a history of severe disease damage.

*Note: Apply the specified amount of BAYLETON 50 Turf and Ornamental Fungicide using 2 to 4 gallons of spray per 1,000 square feet. For equivalent rates per acre, see Conversion Table below. Make all applications after mowing and allow foliage to dry thoroughly before irrigation. Do not use clippings for animal feed.

Conversion Table for BAYLETON 50 Turf and Ornamental Fungicide

Oz/1,000 ft ²	Pounds Per Acre	Number of 5.5 oz PVA Packets Per Acre
0.25	0.7	2
0.5	1.4	4
1.0	2.75	8
2.0	5.5	16

ORNAMENTAL PLANT DISEASE CONTROL

Locate plant(s) (see below) to be treated. Cross reference the number/letter codes, following the plant name, to the specific diseases (see below) controlled. Refer to Application Rates section for instructions detailing use for each disease. In California, only those plants marked with an asterisk may be treated.

PLANTS		DISEASES
Flowering & Foliage Plants (Outdoor) Ageratum (2b, 3, 4) Aster (4) Begonia* (3) Canna (4) Carnation (3, 4) Chrysanthemum (3, 4) Dahlia (3) Delphinium (3) Dendrobium (1c) (Hawaii Only) Dianthus (4) Four O'Clock (4) Geranium* (3, 4) Hollyhock* (3, 4) Hydrangea (3) Iris* (2c) Marigold (2b, 4) Nephthytis* (2a) Pansy (3, 4) Petunia (3, 4) Phlox (2b, 3, 4) Poinsettia (3) Rose* (3) Salvia (3, 4) Sedum (3) Snapdragon* (3, 4) Sunflowers (3, 4) (ornamental only) Sweet peas* (3) Zinnia* (2b, 3)	Ornamental Shrubs & Trees Amelanchier (3) Azalea* (1a, 2f, 3) Barberry (3, 4) Buckthorn (4) Camellia (suppression of 1b) Cedar* (2d) Crabapple (flowering) (3, 4) Crape myrtle* (3) Dogwood (3) Euonymus* (3) Gardenia (3) Hawthorn (3, 4) Hemlock (4e) Holly (3) Juniper (4) Leucothoe (2b) Lilac (3) Mock-Orange (3, 4) Mountain Laurel (1a, 2b, 3) Ninebark (3) Paulownia (3) (Empress Tree) Pear (Flowering) (3) Photinia (2e, 3, 4) Potentilla (4) (Cinquefoil) Privet (2b, 3) Pyracantha (3) Rhododendron (1a, 2b, 3) Spirea (3) Viburnum* (3, 4) Vitex (2b) (Chaste Tree)	Shade Trees Ash (3) Aspen (3, 4) Birch (3, 4) Buckeye (3) Chestnut (3) Cottonwood (3, 4) Elm (3) Fir (4) Locust (3) Maple (3) Oak* (3) Pine* (4, 5) Poplar (3, 4) Russian Olive (2b, 4) Sycamore* (3) Walnut (3) Willow* (3, 4)
	Flowering & Foliage Plants (Non-commercial Greenhouse [D]) African Violet* (3) Azalea (1a, 2f, 3) Calendula (3, 4) Carnation* (3, 4) Chrysanthemum* (3, 4) Cineraria (3) Crassula (3) Daisy (3, 4) Fern, Boston (4) <i>Desmella</i> spp. Geranium* (3, 4) Gerbera (3) Grape Leaf Ivy* (3) Hydrangea (3) Kalanchoe (3) Poinsettia (3) Rose* (3) Snapdragon (3, 4)	(1) Flower Blight a) <i>Ovulinia</i> spp. [A] b) <i>Sclerotinia</i> spp. [A] c) <i>Collectotrichum</i> [A] (2) Leaf Blight/Spots a) <i>Cephalosporium</i> spp. [C] b) <i>Cerocospora</i> spp. c) <i>Didymellina</i> spp. [B] d) <i>Didymascella thujina</i> [G] e) <i>Entomosporium</i> spp. [C] f) <i>Exobasidium</i> spp. [E] (3) Powdery Mildew <i>Erysiphe</i> spp. <i>Microsphaera</i> spp. <i>Oidium</i> spp. <i>Podosphaera</i> spp. <i>Phyllactinia</i> spp. <i>Sphaerotheca</i> spp. <i>Uncinula</i> spp. (4) Rusts a) <i>Coleosporium</i> spp. b) <i>Cronartium</i> spp. [B] (Fusiform) c) <i>Gymnosporangium</i> spp. d) <i>Melampsora</i> spp. [F] e) <i>Melampsora farlowii</i> [A] f) <i>Melampsoridium</i> spp. g) <i>Peridesmium</i> spp. [B] h) <i>Phragmidium andersonii</i> i) <i>Puccinia</i> spp. j) <i>Uromyces</i> spp. k) <i>Uredinopsis mirabilis</i> [A] (5) Tip Blight <i>Sirococcus strobilinus</i> [B]

APPLICATION RATES: Except as noted for specific diseases, mix 5.5 ounces of BAYLETON 50 Turf and Ornamental Fungicide in 275 to 550 gallons of water (1/2 – 1 tsp. in 5 gallons water) and apply as a full coverage foliage spray to the point of drip as needed.

- [A] Mix 5.5 oz of BAYLETON 50 Turf and Ornamental Fungicide in 68.75 to 137.5 gallons of water and apply as a full-coverage foliar spray to the point of drip. Use multiple applications at 7- to 14-day intervals as needed dependent upon bloom periods. Applications should begin at the expanded bud stage (color showing or at bud break on Hemlock). Use 4 applications at 14-day intervals for Hemlock rust.
- [B] Mix 5.5 oz of BAYLETON 50 Turf and Ornamental Fungicide plus sufficient spreader sticker for good coverage in 68.75 gallons of water. Apply in a spray application to the point of run-off on an as needed basis during the early part of the season. Excessive rates or excessive applications may result in a shortening of the flower stalk on iris.
- [C] Mix 5.5 oz of BAYLETON 50 Turf and Ornamental Fungicide in 68.75 to 137.5 gallons of water and apply as a full coverage foliar spray to point of run-off. Apply in early spring as growth starts and re-apply on a 14- to 21-day interval until new growth is fully expanded. Protect new growth that develops in late summer or fall as temperatures begin to drop.

[D] Non-commercial Greenhouse Applications

Winter Use -- 0.5 oz in 50 gallons of water or 5.5 oz in 550 gallons of water.

Summer Use -- 1 oz in 50 gallons of water or 5.5 oz in 275 gallons of water.

Mix specified amount of BAYLETON 50 Turf and Ornamental Fungicide in water and apply in a spray application to the point of drip. Intervals between applications should be no shorter than 30 days to avoid flower stalk length reduction. Excessive rates or applications may result in a shortening of the flower stalk.

- [E] For control of *Exobasidium* flower and leaf gall, apply 5.5 ounces of BAYLETON 50 Turf and Ornamental Fungicide in 275 gallons of water. Begin application at bud break and apply at 10-day intervals through infestation period.
- [F] For control of *Melampsora pinitorqua* (Pine Twisting Rust), apply a single application in spring during periods favorable for infection. Mix 5.5 ounces in 34.3 gallons of water and apply to shoots in the upper whorl of susceptible pine species. Make a single application per year as a full coverage application sprayed to runoff.
- [G] For control of *Didymascella thujina*, Cedar Leaf Blight, apply 5.5 ounces per 0.69 acres in sufficient water to provide full coverage in nurseries, or 5.5 ounces per 68.75 gallons applied as a full coverage spray to ornamentals. Begin applications before disease appears in spring, and repeat at 60-day intervals through early fall.

COMPATIBILITY: BAYLETON is compatible with many registered insecticides and fungicides. To determine the compatibility of BAYLETON with specific products, the following procedure should be conducted. Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least 5 minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

SPRAY ADDITIVES: Use of various spray additives such as spreaders, extenders, trace elements or fertilizers should be evaluated prior to use. The label directions given here are based on data obtained with no additives; use of any product with BAYLETON may affect the result. Contact local university extension personnel prior to use of spray mix additives.

RESTRICTIONS: Edible portions of treated trees, such as nuts and syrup, should not be used for feed or food.

Recommended Applications		
Christmas Trees (Except Concolor Fir)	Stem and Cone Rusts <i>Cronartium</i> spp. (Fusiform) <i>Peridermium</i> spp. <i>Endocronartium Harknessii</i> (Gall) Tip blight <i>Sirococcus strobilinus</i> Lophodermium Needlecast <i>Lophodermium pinestri</i>	8 oz/A
<p>Apply specified dosage per acre or per 100 gallons of water as a full coverage, dilute spray as needed. Full coverage of the trees is essential for maximum control. Use of nonionic spray adjuvant is recommended. Time applications appropriately for the specific disease being controlled. A maximum of 64 oz of Bayleton 50% WP may be applied per acre per season.</p> <p>For rusts, begin applications when the needles break through the fascicle sheath. Make additional applications at 14 to 21-day intervals. Stop when galls become pale to white color.</p> <p>For tip blight, begin applications to coincide with bud break. Make two additional applications at 14-day intervals.</p> <p>For Lophodermium needlecast, begin applications to coincide with spore release, normally beginning in mid-July and ending in mid-October. Make applications at 21-day intervals. Extend interval to 28 days if spore release is light or dry weather is expected.</p>		

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store below freezing (32°F). Exposure to moisture or excessive handling of water soluble packets may cause breakage. Store packets in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Material that cannot be used as directed should be disposed of as directed below. In spill or leak incidents, keep unauthorized people away.

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: Completely empty carton into application equipment. Then dispose of empty carton in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Disposal Residential/Household: If Empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks 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 Bayer Environmental Science. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: BAYER ENVIRONMENTAL SCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer Environmental Science is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Bayer Environmental Science disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER ENVIRONMENTAL SCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENTS:

Bayleton® is a registered trademark of Bayer AG.



Bayer Environmental Science

Bayer Environmental Science
A Business Group of Bayer CropScience LP
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

05-24-05



Material Safety Data Sheet

BAYLETON® 50 WSP SYSTEMIC FUNGICIDE / TURF AND ORNAMENTAL FUNGICIDE IN WATER SOLUBLE PACKETS

MSDS Number: 102000012193

MSDS Version 2.1

Revision Date: 01/27/2010

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name BAYLETON® 50 WSP SYSTEMIC FUNGICIDE / TURF AND ORNAMENTAL FUNGICIDE IN WATER SOLUBLE PACKETS
MSDS Number 102000012193
EPA Registration No. 432-1360

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful if swallowed, inhaled or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist.

Physical State granular

Odor sharp musty

Appearance brown

Exposure routes Eye contact, Skin contact, Inhalation, Skin Absorption

Immediate Effects Eye Moderate eye irritation may occur. Avoid contact with eyes.

Skin slight irritation Repeated contact may sensitize the skin, leading to allergic reactions. Harmful if absorbed through skin. Avoid contact with skin and clothing.

Ingestion Harmful if swallowed. Do not take internally.

Inhalation Avoid breathing dust or spray mist. Harmful if inhaled.



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Chronic or Delayed Long-Term

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects. This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

Medical Conditions Aggravated by Exposure

No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Triadimefon	43121-43-3	50.00
Quartz (Silica, Crystalline)	14808-60-7	0.36

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.



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Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Notes to physician
Signs and Symptoms hyperactivity followed by sedation

Treatment Treat symptomatically. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point not applicable

Suitable extinguishing media Water, Carbon dioxide (CO2), Foam, Dry chemical

Fire Fighting Instructions Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Avoid dust formation.

Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment.

SECTION 7. HANDLING AND STORAGE

Handling procedures Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Storing Procedures Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked



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storage area.

Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing. Remove soiled clothing immediately and clean thoroughly before using again.

Min/Max Storage Temperatures

No minimum / 60 day average temperature not to exceed 37.8°C / 100°F.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

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

Train employees in safe use of the product. Follow all label instructions.

Eye/Face Protection

Safety glasses with side-shields

Hand protection

Chemical resistant nitrile rubber gloves

Body Protection

Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Quartz (Silica, Crystalline)	14808-60-7	ACGIH	TWA	0.025 mg/m3
		NIOSH	REL	0.05 mg/m3
		OSHA Z1A	TWA	0.1 mg/m3
		Z3	TWA	2.4 millions of particles per cubic foot of air
		Z3	TWA	0.1 mg/m3
		Z3	TWA	0.3 mg/m3
		US CA OEL	TWA PEL	0.1 mg/m3
		US CA OEL	TWA PEL	0.3 mg/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	AN ESL	0.1 ug/m3



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TX ESL	AN ESL	0.1 ug/m3
TX ESL	ST ESL	10 ug/m3
TX ESL	AN ESL	1 ug/m3
	TWA	0.1 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown
Physical State	granular
Odor	sharp musty
pH	7.0 - 8.5 (5 %) aqueous suspension
Bulk density	35 - 37 lb/ft ³ Bulk Density: Fluffed - 36 lb./ ft.3 Packed - 39 - 41 lb./ ft.3

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	Exposure to moisture. Heat, flames and sparks.
Incompatibility	Strong oxidizing agents Acids
Hazardous Decomposition Products	Thermal decomposition Amines Hydrogen chloride (HCl) nitrogen oxides (NOx) Carbon monoxide
Chemical Stability	Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have been bridged from a similar formulation containing the same percent of the active ingredient, triadimefon. The non-acute information pertains to the technical-grade active ingredient, triadimefon.

Acute oral toxicity	male rat: LD50: 812 mg/kg female rat: LD50: 1,470 mg/kg
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Acute dermal toxicity male/female combined rat: LD50: > 2,000 mg/kg
male/female combined rabbit: LD50: > 2,000 mg/kg

Acute inhalation toxicity male/female combined rat: LC50: > 3.5 mg/l
Exposure time: 4 h
Determined in the form of a respirable fine dust.
(actual)

male/female combined rat: LC50: > 14.0 mg/l
Exposure time: 1 h
Determined in the form of a respirable fine dust.
Extrapolated from the 4 hr LC50.
(actual)

Skin irritation rabbit: slight irritation

Eye irritation rabbit: Minimally irritating.

Sensitisation Potential skin sensitizer based on technical-grade triadimefon.

Chronic toxicity The major organs affected from long-term exposure to triadimefon in chronic studies in rats and dogs were the liver and/or thyroid (secondary effects).

Assessment Carcinogenicity

EPA has classified triadimefon as a Group C (possible human carcinogen) based on borderline statistically significant increases in thyroid adenomas in male rats, and increases in liver adenomas in both sexes in mice. The Agency used a non-linear methodology approach for determining the Margin of Exposure (MOE) for the estimation of human cancer risk because the tumors were benign, and there were no apparent genotoxicity concerns. Therefore, EPA has a reasonable certainty that no harm will result from exposure to residues of triadimefon.

ACGIH

Quartz (Silica, Crystalline)	14808-60-7	Group A2
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NTP

None.

IARC

Quartz (Silica, Crystalline)	14808-60-7	Overall evaluation: 1
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OSHA

None.

Reproductive toxicity REPRODUCTION: In reproduction studies in rats, triadimefon caused reproductive effects (e.g., smaller litter sizes) in conjunction with parental toxicity at the highest dose tested.

DEVELOPMENTAL TOXICITY: Triadimefon is not a primary developmental toxicant based on developmental toxicity studies in rats and rabbits.



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Malformations were observed in both species but only at maternally-toxic dose levels.

Neurotoxicity Triadimefon caused prominent hyperactivity-related neurobehavioral changes in acute (oral gavage) and subchronic (diet) neurotoxicity screening studies in rats. There were no neuropathologic alterations in the skeletal muscle or neural tissues in either study.

Mutagenicity Triadimefon is not considered genotoxic or mutagenic based on in vitro and in vivo mutagenicity studies.

SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label. Do not allow to get into surface water, drains and ground water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Container Disposal Do not re-use empty containers. Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION:
Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1360



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US Federal Regulations

TSCA list

Quartz (Silica, Crystalline) 14808-60-7

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Triadimefon 43121-43-3 1.0%

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Triadimefon	43121-43-3	Developmental toxin.
Triadimefon	43121-43-3	Female reproductive toxin.
Triadimefon	43121-43-3	Male reproductive toxin.

US State Right-To-Know Ingredients

Triadimefon	43121-43-3	NJ
Quartz (Silica, Crystalline)	14808-60-7	IL, MA

Canadian Regulations

Canadian Domestic Substance List

Quartz (Silica, Crystalline) 14808-60-7

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Quartz (Silica, Crystalline) 14808-60-7

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard



Material Safety Data Sheet

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ORNAMENTAL FUNGICIDE IN WATER SOLUBLE
PACKETS**

MSDS Number: 102000012193
MSDS Version 2.1

Reason to Revise: Updated for general editorial purposes.

Revision Date: 01/27/2010

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

GROUP B-2 | O-4 HERBICIDE



Celsius™ WG

HERBICIDE

A Herbicide for Control of Annual and Perennial Broadleaf Weeds and Grasses in Warm-Season Turf Types (St. Augustinegrass, Bermudagrass, Centipedegrass, Zoysiagrass) listed in this label in Commercial and Residential Sites*

ACTIVE INGREDIENTS: Thiencarbazone-methyl (CAS Number 317815-83-1)	8.7%
Iodosulfuron-methyl-sodium (CAS Number 144550-36-7)	1.9%
Dicamba (CAS Number 1918-00-9)	57.4%
OTHER INGREDIENTS:	32.0%
TOTAL:	100.0%

CELSIUS™ WG is formulated as a 68% water dispersible granule

*Do not use on bahiagrass or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

EPA Reg. No. 432-1507

EPA Est. No. 264-DEU-001

**STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

Net Contents
10 Ounces

79714858
Product of Germany
79925816 091022A

**BACKED
by BAYER**

176

5

For **PRODUCT USE** Information Call 1-800-331-2867
For **MEDICAL** and **TRANSPORTATION** Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

FIRST AID

If In Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.

For **MEDICAL** Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco, chewing gum, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators and other handlers must wear: Long-sleeved shirt, long pants, and shoes plus socks. See Engineering Control Statement for additional requirements.

User Safety Requirements:

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.

Engineering control statement:

When handlers use closed systems, enclosed cabs, in a manner that meets the 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 WPS.

USER SAFETY RECOMMENDATIONS

Remove clothing/PPE immediately if pesticide gets inside or after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash hands thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to non-target plants. Non-target plants may be adversely affected if the product is allowed to drift from the areas of application. Avoid spray drift from treated area. Do not apply when conditions favor drift from treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not drain or rinse equipment near desirable vegetation. Refer to the Spray Drift Management section of this label for additional information.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having "high potential for reaching surface water via runoff," according to the chemical's "mean" soil partition coefficient (Kd) for several days after application. A level well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this herbicide from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Some of the chemicals in this product have properties and characteristics associated with chemicals detected in ground water. These chemicals may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near extreme 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. Read entire label before using this product.

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 same 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, decontamination, 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 intervals. The requirements in this box only 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 24 hours (sof farm use only).

PPE required for early entry to treated areas 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 coveralls over long-sleeved shirt and long pants, chemical-resistant footwear plus socks, chemical-resistant gloves made of any waterproof material, chemical-resistant headgear for overhead exposure, and protective eyewear.

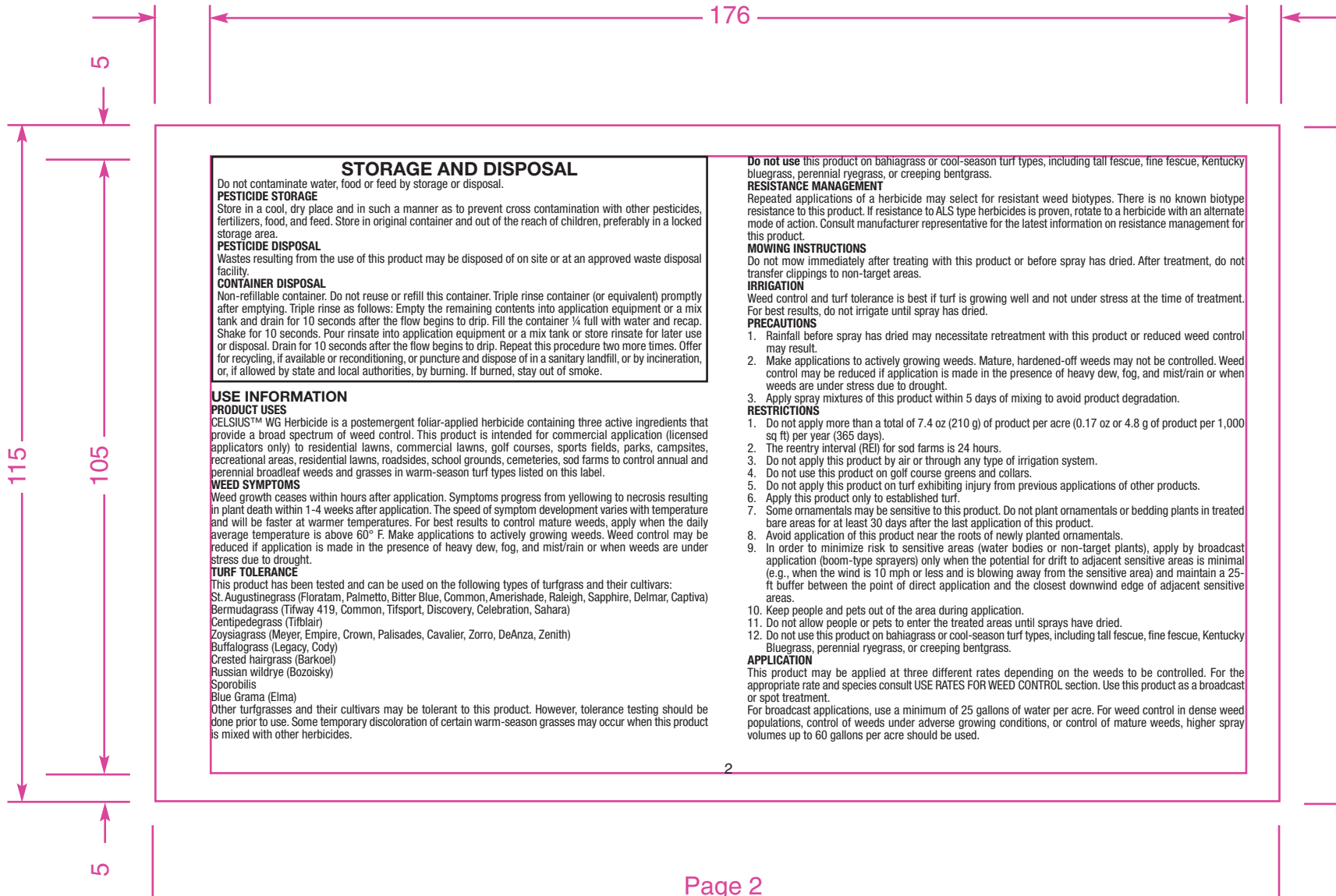
NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter treated areas until sprays have dried.

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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

USE INFORMATION

PRODUCT USES

CELSIUS™ WG Herbicide is a postemergent foliar-applied herbicide containing three active ingredients that provide a broad spectrum of weed control. This product is intended for commercial application (licensed applicators only) to residential lawns, commercial lawns, golf courses, sports fields, parks, campsites, recreational areas, residential lawns, roadsides, school grounds, cemeteries, sod farms to control annual and perennial broadleaf weeds and grasses in warm-season turf types listed on this label.

WEED SYMPTOMS

Weed growth ceases within hours after application. Symptoms progress from yellowing to necrosis resulting in plant death within 1-4 weeks after application. The speed of symptom development varies with temperature and will be faster at warmer temperatures. For best results to control mature weeds, apply when the daily average temperature is above 60° F. Make applications to actively growing weeds. Weed control may be reduced if application is made in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.

TURF TOLERANCE

This product has been tested and can be used on the following types of turfgrass and their cultivars:
 St. Augustinegrass (Floratom, Palmetto, Bitter Blue, Common, Amerishade, Raleigh, Sapphire, Delmar, Captiva)
 Bermudagrass (Tifway 419, Common, TifSport, Discovery, Celebration, Sahara)
 Centipedegrass (Tifblair)
 Zoysiagrass (Meyer, Empire, Crown, Palisades, Cavalier, Zorro, DeAnza, Zenith)
 Buffalograss (Legacy, Cody)
 Crested hairgrass (Barkoel)
 Russian wildrye (Bozolsky)
 Sporobolus
 Blue Grama (Elma)

Other turfgrasses and their cultivars may be tolerant to this product. However, tolerance testing should be done prior to use. Some temporary discoloration of certain warm-season grasses may occur when this product is mixed with other herbicides.

Do not use this product on bahiagrass or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

RESISTANCE MANAGEMENT

Repeated applications of a herbicide may select for resistant weed biotypes. There is no known biotype resistance to this product. If resistance to ALS type herbicides is proven, rotate to a herbicide with an alternate mode of action. Consult manufacturer representative for the latest information on resistance management for this product.

MOWING INSTRUCTIONS

Do not mow immediately after treating with this product or before spray has dried. After treatment, do not transfer clippings to non-target areas.

IRRIGATION

Weed control and turf tolerance is best if turf is growing well and not under stress at the time of treatment. For best results, do not irrigate until spray has dried.

PRECAUTIONS

1. Rainfall before spray has dried may necessitate retreatment with this product or reduced weed control may result.
2. Make applications to actively growing weeds. Mature, hardened-off weeds may not be controlled. Weed control may be reduced if application is made in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.
3. Apply spray mixtures of this product within 5 days of mixing to avoid product degradation.

RESTRICTIONS

1. Do not apply more than a total of 7.4 oz (210 g) of product per acre (0.17 oz or 4.8 g of product per 1,000 sq ft) per year (365 days).
2. The reentry interval (RE) for sod farms is 24 hours.
3. Do not apply this product by air or through any type of irrigation system.
4. Do not use this product on golf course greens and collars.
5. Do not apply this product on turf exhibiting injury from previous applications of other products.
6. Apply this product only to established turf.
7. Some ornamentals may be sensitive to this product. Do not plant ornamentals or bedding plants in treated bare areas for at least 30 days after the last application of this product.
8. Avoid application of this product near the roots of newly planted ornamentals.
9. In order to minimize risk to sensitive areas (water bodies or non-target plants), apply by broadcast application (boom-type sprayers) only when the potential for drift to adjacent sensitive areas is minimal (e.g., when the wind is 10 mph or less and is blowing away from the sensitive area) and maintain a 25-ft buffer between the point of direct application and the closest downwind edge of adjacent sensitive areas.
10. Keep people and pets out of the area during application.
11. Do not allow people or pets to enter the treated areas until sprays have dried.
12. Do not use this product on bahiagrass or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

APPLICATION

This product may be applied at three different rates depending on the weeds to be controlled. For the appropriate rate and species consult USE RATES FOR WEED CONTROL section. Use this product as a broadcast or spot treatment.

For broadcast applications, use a minimum of 25 gallons of water per acre. For weed control in dense weed populations, control of weeds under adverse growing conditions, or control of mature weeds, higher spray volumes up to 60 gallons per acre should be used.

For spot applications, add the specified product rate of 0.057-0.113 oz (1.6-3.2g) to enough water to create approximately 1 gallon spray solution. One gallon of spray solution will treat up to 1,000 sq ft.
 For maximum weed control with broadcast applications, add non-ionic surfactant (NIS) or methylated seed oil (MSO) at recommended rate to the spray solution. For spot applications, use 0.25 percent v/v of NIS or MSO in the spray solution.

APPLICATION METHODS, MIXING AND COMPATIBILITY

Uniform, thorough spray coverage is important to achieve consistent weed control. Select spray nozzles and pressure that deliver at least MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of weeds.

Spray Solution pH

The efficacy of this product may be affected by the pH of the spray solution. A pH near 7.0 is ideal. If the pH is <6 and if product spray solution is not to be used within 24 hours, add a suitable buffer.

Mixing Instructions

This product must be applied with clean and properly calibrated equipment. Prior to adding this product, ensure that the spray tank, filters and nozzles have been thoroughly cleaned. Prepare only as much spray mixture as needed for application on the same day.

1. Fill spray tank with 25% to 50% of the required volume of water, and begin agitation prior to the addition of this product.
2. Before filling or adding any additional products, ensure full dispersion of this product.
3. If this product is applied in a tank mixture with other products, add this product to the spray tank first and ensure it is thoroughly dispersed before adding other products.
4. Continue to fill the spray tank with water to the desired volume and agitate while adding spray adjuvants and nitrogen fertilizers.
5. Continue agitation during application to ensure a uniform spray mixture.

Compatibility

If this product is to be tank-mixed with other products, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 qt) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop (precipitation, settling, changes in color), do not use this mixture for spraying. Indications of incompatibility may occur within 5-15 minutes after mixing. Read and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

TANK CLEANUP PROCEDURE

1. Drain the tank completely, then wash out tank, boom, and hoses with clean water. Drain again.
2. Fill the tank half full with clean water and add ammonia (i.e. 3% domestic ammonia solution) at a dilution rate of 1% (i.e. 1 gallon of domestic ammonia for every 100 gallons of rinsate). Completely fill the tank with water. Agitate/re-circulate and flush through boom and hoses. Leave agitation on for 10 minutes. Drain tank completely.
3. Repeat Step 2.
4. Remove nozzles and screens and soak them in a 1% ammonia solution. Inspect nozzles and screens and remove visible residues.
5. Flush tank, boom, and hoses with clean water.
6. Inspect tank for visible residues. If present, repeat Step 2.

WEED CONTROL INFORMATION

This product may be used to control a variety of broadleaf weeds and grasses in tolerant turf. Apply this product to susceptible weeds as listed in the Use Rates for Weed Control section. For certain weeds, a second application made 2-4 weeks later may be needed for complete weed control. Total amount of product applied

in a calendar year (365 days) must not exceed 7.4 oz (210 g) of product per acre.

BERMUDAGRASS OVERSEEDED WITH RYEGRASS

Bermudagrass may be treated with this product prior to overseeding. Allow 14 days or more between the application of this product and overseeding with ryegrass. Intervals less than 14 days may cause undesirable reductions in the stand of ryegrass. When other products are mixed with this product, follow the most restrictive application interval prior to ryegrass overseeding on each label.

SEEDING AND SPRIGGING INTERVALS

Seeded Bermudagrass: This product may be applied to Bermudagrass up to 30 days prior to seeding without a significant reduction in Bermudagrass stand. For newly established stands of Bermudagrass, do not apply this product for at least 2 weeks after emergence as injury may result.

Sprigged Bermudagrass: This product may be applied to sprigged Bermudagrass no sooner than 2 weeks after sprigging without a significant reduction in quality.

Seeded Zoysiagrass: This product may be applied to zoysiagrass up to 30 days prior to seeding without a significant reduction in zoysiagrass stand. For newly established stands of zoysiagrass, do not apply this product for at least 3 weeks after germination as injury may result.

DALLISGRASS CONTROL

This product in combination with REVOLVER® Herbicide (2 fl oz per gallon) applied as a spot treatment in late summer or early fall will suppress and/or control dallisgrass. Applications made sooner may not be effective. Add the specified product rate of 0.057 – 0.113 oz (1.6 - 3.2 g) to enough water to create approximately one gallon of spray solution. One gallon of spray solution will treat up to 1,000 sq ft. Make a second application at the same rates approximately 14 days later.

TANK MIX PRODUCTS FOR THIS PRODUCT

This product may be used in combination with Revolver Herbicide, Sencor Herbicide, Prograss Herbicide, Ronstar WSP Herbicide, Ronstar FLO Herbicide, Acclaim Extra Herbicide, Illoxan Herbicide for post emergent control of many grasses and broad leaf weeds. When using this product, follow the precautions and directions of both labels. When using other tank mixtures with this product, test physical and biological compatibility prior to use.

APPLICATIONS MAY BE MADE ONLY FOR USES FOR WHICH BOTH CELSIUS WG HERBICIDE AND THE TANK MIX PRODUCT ARE REGISTERED ON. WHEN APPLYING A TANK MIX WITH THIS PRODUCT, THE MOST HIGHLY RESTRICTIVE LABELING APPLIES.

USE RATES FOR WEED CONTROL

Broadcast Application

Rates for specific weeds are found in the Weeds Controlled tables below. Do not exceed the maximum amount of this product indicated in the table below in a calendar year (365 days).

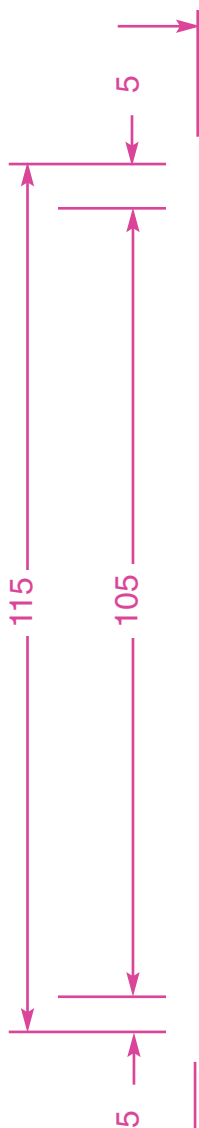
Amount of Product				
Use Rate	oz/1,000 sq ft	g/1,000 sq ft	oz/A	g/A
Low	0.057	1.6	2.5	70
Medium	0.085	2.4	3.7	105
High	0.113	3.2	4.9	140
Yearly max.	0.17	4.8	7.4	210

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Spot Application

Use 0.057 - 0.113 oz (1.6 - 3.2 g) of product per gallon of water and spray individual weeds until wet. One gallon of spray solution will treat up to 1,000 sq ft.

Weeds controlled at 0.057 oz (1.6 g) of product per 1,000 sq ft

Barnyardgrass	Ground Ivy	Quackgrass
Buttercup	Hairy bittercress	Ragweed, common
Butter-daisy	Henbit	Ragweed, giant
California burclover	Hop clover	Red sorrel
Carolina fakedandelion	Horse purslane	Shattercane
Carpetweed	Johnsongrass	Spiny sowthistle
Chickweed, common	Lawn burweed, spurweed	Stinkgrass
Clover, rabbitfoot	Millet, common	Sunflower, common
Clover, white	Morningglory, pitted	Switchgrass
Curly dock	Mustard, white	Tansy mustard
Cutleaf evening primrose	Nightshade, eastern black	Velvetleaf
Daisy, oxeye	Nightshade, hairy	Venus looking-glass
Dandelion, catsear	Palmer amaranth	Vetch, common
Dandelion, common	Pennsylvania smartweed	Wild buckwheat
Field madder	Pigweed, redroot	Wild carrot
Field pansy	Plantain, blackseed	Wild lettuce
Field violet	Plantain, bracted	Wild oat
Foxtail, giant	Plantain, broadleaf	Wild onion
Foxtail, green	Plantain, buckhorn	

Weeds controlled at 0.085 oz (2.4 g) of product per 1,000 sq ft

American burweed	Foxtail, yellow	Purslane, common*
Aster, heath*	Gophertail lovegrass	Sandbur, field (coastal)
Aster, slender	Green Kyllinga*	Shepherd's purse
Beggarweed, creeping	Heartwing sorrel	Sicklepod
Break-stone, field parsley-piert	Horseweed, marestail, fleabane	Speedwell, corn
Broadleaf signalgrass	Horseweed, sprawling	Speedwell, creeping
Bromegrass*	Knawel	Swinecress
Carolina geranium*	Lady's Mantle	Tall lettuce
Chamber bitter	Lambsquarter, common*	Texas panicum
Chickweed, mouse-ear	Millet, browntop	Thistle, canada
Cudweed	Morningglory, entireleaf	Thistle, russian
Dandelion, Virginia dwarf	Morningglory, ivyleaf	Toadflax, oldfield
Dichondra*	Mustard, wild	Waterhemp, common
Dog fennel	Nightshade, black	White sweet clover
Dollarweed*	Paspalum, bull*	Wild garlic*
Facelis, trampweed	Pepperweed, field	Wild pansy
Fall panicum	Plantain, pateseed	Yellow rocket
Fescue, red	Pokeweed, common	Yellow woodsorrel (Oxalis)*
Fescue, tall	Poorjoe*	
Florida betony	Prickly sida*	

Weeds controlled at 0.113 oz (3.2 g) of product per 1,000 sq ft

Birdseye pearlwort	Doveweed*	Sage, whiteleaf
Black medic	Florida pusley	Spurge, prostrate
Crabgrass, large	Hemp sesbania	Spurge, spotted*
Cudweed, purple	Lespedeza	Virginia buttonweed*
Dallisgrass**	Ragweed, western	

* Weeds that may need a second application of this product for control. If weeds are showing signs of recovery, make a second application 2-4 weeks after the first. Do not exceed 7.4 oz (210 g) of product per acre per year (365 days).

** Dallisgrass is best controlled with two spot applications as described above. Follow application directions for a spot application.

SPRAY DRIFT MANAGEMENT:

Damage to sensitive non-targeted plants can occur as a result of spray drift. Spray drift can be managed by several application factors and by spraying under the appropriate climatic conditions. Consequently, avoidance of spray drift is the responsibility of the applicator.

Sensitive Areas: Apply by broadcast application (boom-type sprayers) only when the potential for drift to adjacent sensitive areas (water bodies or non-target plants) is minimal (e.g., when wind is 10 mph or less and is blowing away from the sensitive areas). Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Do not apply under circumstances where possible drift to unprotected persons or to food, forage, desirable plants, or crops intended for sale, use, or consumption.

Droplet Size: Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Temperature and Humidity below). Select nozzles and pressure that deliver at least MEDIUM-sized spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Higher-flow-rate nozzles generally deliver larger droplet size and can help reduce drift potential. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of weeds.

Application Height: To minimize spray drift, apply with nozzle height no more than 3 feet above the ground.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry. Avoid spraying during conditions of low humidity and/or high temperatures.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Turf 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 Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. NO

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agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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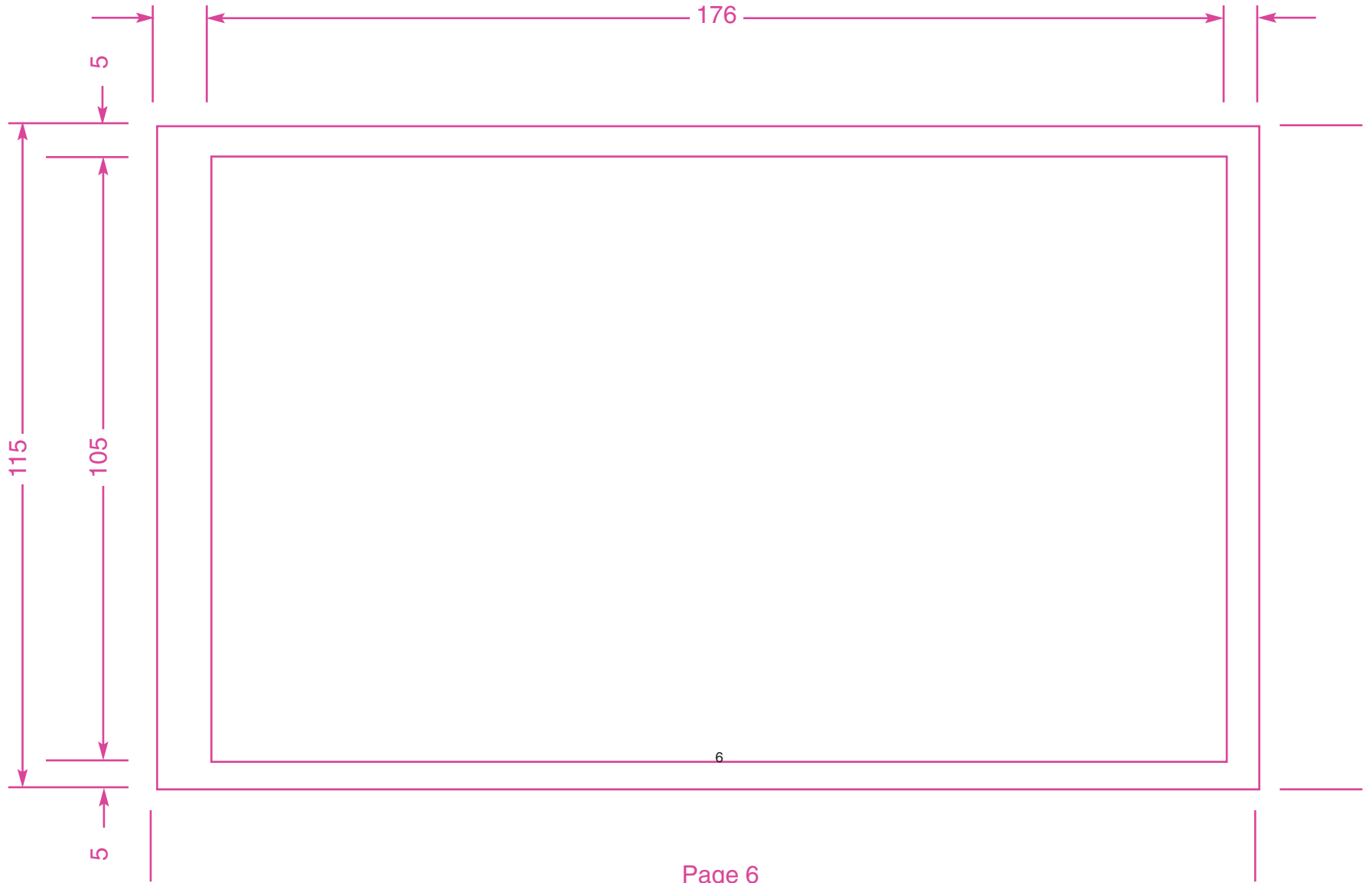
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Produced for:
Bayer Environmental Science
 A Business Group of Bayer CropScience LP
 2 T. W. Alexander Drive
 Research Triangle Park, NC 27709

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Celsius™ WG Herbicide

GROUP B-2 O-4 HERBICIDE

A Herbicide for Control of Annual and Perennial Broadleaf Weeds and Grasses in Warm-Season Turf Types (St. Augustinegrass, Bermudagrass, Centipedegrass, Zoysiagrass) listed in this label in Commercial and Residential Sites*

ACTIVE INGREDIENTS:	Thiencarbazone-methyl (CAS Number 317815-83-1).....	8.7%
	Iodosulfuron-methyl-sodium (CAS Number 144550-36-7).....	1.9%
	Dicamba (CAS Number 1918-00-9).....	57.4%
OTHER INGREDIENTS:	32.0%
TOTAL:	100.0%

CELSIUS™ WG Herbicide is formulated as a 68% water dispersible granule
*Do not use on bahiagrass or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.
EPA Reg No. 432-1507 EPA Est. No. 264-DEU-001

**STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

For PRODUCT USE Information Call 1-800-331-2867
For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

FIRST AID

If In Eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Refer to attached leaflet for complete Directions for Use and Precautionary Statements.

Net Contents
10 Ounces
79714858
Product of Germany
79925816 091022A

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco, chewing gum, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to non-target plants. Non-target plants may be adversely affected if the product is allowed to drift from the areas of application. Avoid spray drift from treated area. Do not apply when conditions favor drift from treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not drain or rinse equipment near desirable vegetation. Refer to the Spray Drift Management section of this label for additional information. This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having "high potential for reaching surface water via runoff," according to the chemical's "mean" soil partition coefficient (Kd) for several days after application. A level well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this herbicide from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Some of the chemicals in this product have properties and characteristics associated with chemicals detected in ground water. These chemicals may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near extreme heat or open flame.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**BACKED
by BAYER™**



Produced for:
Bayer Environmental Science
A Business Group of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709

Repeater page: attaches to base label.



Material Safety Data Sheet

CELSIUS™ WG HERBICIDE

MSDS Number: 102000022858

MSDS Version 1.0

Revision Date: 08/28/2009

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name CELSIUS™ WG HERBICIDE
MSDS Number 102000022858
EPA Registration No. 432-1507

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Moderate eye irritation. Avoid contact with skin, eyes and clothing.
Wash thoroughly with soap and water after handling.

Physical State dry, free flowing, water dispersible granules

Odor characteristic

Appearance beige

Routes of Exposure Eye contact, Skin contact, Ingestion

Immediate Effects

Eye May cause eye irritation. Do not get in eyes.

Ingestion May be harmful if swallowed.



Material Safety Data Sheet

CELSIUS™ WG HERBICIDE

MSDS Number: 102000022858
MSDS Version 1.0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Dicamba	1918-00-9	57.40
Iodosulfuron-methyl-sodium	144550-36-7	1.90
Thiencarbazone-methyl	317815-83-1	8.70
Sodium dioctyl sulphosuccinate	577-11-7	
Sulphonated aromatic polymer, sodium salt		
Sodium hydroxide	1310-73-2	

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to Physician Treatment	Treat symptomatically. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards	In the event of fire the following may be released: Hydrogen chloride (HCl) Carbon dioxide (CO2) Carbon monoxide (CO) Sulphur oxides
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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Fire Fighting Instructions Keep out of smoke. Fight fire from upwind position. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional Advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation.

SECTION 7. HANDLING AND STORAGE

Handling Procedures Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Keep away from heat and sources of ignition.

Storing Procedures Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Work/Hygienic Procedures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Min/Max Storage Temperatures Recommended minimum transport/storage temperature: -10 °C / 14 °F
Recommended maximum transport/storage temperature: 40 °C / 104 °F

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection Follow all label instructions. Train employees in safe use of the product.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such



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instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

- Eye/Face Protection** Safety glasses with side-shields
- Hand protection** Chemical resistant nitrile rubber gloves
- Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.
- Respiratory Protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Iodosulfuron-methyl-sodium	144550-36-7	OES BCS*	TWA	1 mg/m3
Dicamba	1918-00-9	TX ESL TX ESL	ST ESL AN ESL	100 ug/m3 10 ug/m3

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** beige
- Physical State** dry, free flowing, water dispersible granules
- Odor** characteristic
- pH** 8.0 - 9.5 (1 %) at 23 °C
Measuring at room temperature 23 °C ± 3 °C

SECTION 10. STABILITY AND REACTIVITY

- Incompatibility** no data available
- Hazardous Reactions** No hazardous reactions known.
- Chemical Stability** Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute Oral Toxicity** female rat: LD50: > 5,000 mg/kg



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Acute Dermal Toxicity male/female combined rat: LD50: > 5,000 mg/kg

Acute Inhalation Toxicity male/female combined rat: LC50: > 2.54 mg/l
Exposure time: 4 h
Determined in the form of dust.

male/female combined rat: LC50: > 10.2 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.

Skin Irritation rabbit: Slight irritation.

Eye Irritation rabbit: Moderate eye irritation.

Chronic Toxicity Dicamba did not target any organs in chronic toxicity studies in rats and dogs.

Iodosulfuron-methyl-sodium caused body weight changes in rats and minimal to moderate hematopoietic hyperplasia and increased cholesterol in dogs.

Thiencarbazone-methyl caused urinary tract irritation in long term studies in mice, rats and dogs.

Assessment Carcinogenicity

Dicamba was not carcinogenic in lifetime feeding studies in rats and mice. EPA has classified dicamba "not likely to be carcinogenic to humans."

Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice.

Thiencarbazone-methyl was not carcinogenic in a lifetime feeding study in rats. In a lifetime feeding study in mice, there was a low incidence of urinary bladder tumors at high doses secondary to the chronic irritation due to the presence of bladder stones. Thiencarbazone-methyl was considered not to be directly carcinogenic in mice.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Reproductive toxicity REPRODUCTION: Dicamba was not a primary reproductive toxicant in a two-generation reproduction study in rats. Reproductive effects were observed only at doses that caused parental systemic toxicity. Offspring toxicity was manifested at a dose lower than parental systemic toxicity.

DEVELOPMENTAL TOXICITY: Dicamba was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in rabbits but



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were considered secondary to maternal toxicity.

REPRODUCTION: Iodosulfuron-methyl-sodium was not a reproductive toxicant at non-maternally toxic dose levels in a multi-generation study in rats.

DEVELOPMENTAL TOXICITY: Iodosulfuron-methyl-sodium is not a primary developmental toxicant in laboratory animals. Slight developmental effects were observed in conjunction with maternal toxicity only at the limit dose (1000 mg/kg) in rats.

REPRODUCTION: Thien carbazole-methyl was not a reproductive toxicant in a two-generation study in rats. Thien carbazole-methyl caused toxicity in offspring at doses producing systemic toxicity in adult rats.

DEVELOPMENTAL TOXICITY: Thien carbazole-methyl was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed but were considered secondary to maternal toxicity.

Neurotoxicity

Dicamba has demonstrated the potential to cause neurotoxicity at high doses in laboratory animals.

Iodosulfuron-methyl-sodium did not demonstrate the potential to cause neurotoxicity in standard toxicity studies using laboratory animals.

Thien carbazole-methyl was not a neurotoxicant in acute and subchronic neurotoxicity screening studies in rats.

Mutagenicity

Dicamba did not demonstrate evidence of mutagenic potential, although, some positive results have been reported in the published literature.

Iodosulfuron-methyl-sodium is not considered genotoxic based on in vitro and in vivo tests.

Thien carbazole-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Drift or runoff from treated areas may adversely affect non-target plants. Do not apply when weather conditions favor runoff or drift. Do not allow to get into surface water, drains and ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.



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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Dispose in accordance with all local, state/provincial and federal regulations. Do not dispose of waste into sewer. Follow advice on product label and/or leaflet.

Container Disposal Triple rinse containers. Add washings to sprayer at time of filling. Puncture container to avoid re-use. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for transport in the US

FREIGHT CLASSIFICATION:
Compounds, Tree or Weedkilling, N.O.I., other than poison, having a density of 20 LBS or greater per cubic foot

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1507

US Federal Regulations

TSCA list

Sodium dioctyl sulphosuccinate 577-11-7
Sulphonated aromatic polymer, sodium salt
Sodium hydroxide 1310-73-2

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Dicamba 1918-00-9 1.0%

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Dicamba 1918-00-9 CA, CT, IL, NJ, PA
Sodium hydroxide 1310-73-2 CA, CT, IL, MN, PA, RI

Canadian Regulations

Canadian Domestic Substance List

Sodium dioctyl sulphosuccinate 577-11-7



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Sulphonated aromatic polymer, sodium salt
Sodium hydroxide 1310-73-2

Environmental

CERCLA

Dicamba 1918-00-9 1,000 lbs
Sodium hydroxide 1310-73-2 1,000 lbs

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Sodium hydroxide 1310-73-2

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 08/28/2009

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

CUTRINE[®]-PLUS

ALGAECIDE/HERBICIDE

Pat. No. 3,930,834

EPA Reg. No. 8959-10

EPA Est. No. 42291-GA-1

FOR USE IN LAKES – POTABLE WATER RESERVOIRS
FARMS, FISH AND INDUSTRIAL PONDS, FISH HATCHERIES AND
RACEWAYS, CROP AND NON-CROP IRRIGATION CONVEYANCE
SYSTEMS, DITCHES, CANALS AND LATERALS

ACTIVE INGREDIENTS:

COPPER AS ELEMENTAL.....*9.0%

INERT INGREDIENTS:.....91.0%

TOTAL.....100.0%

CUTRINE-PLUS contains 0.909 lbs. of elemental copper per gallon.

*From mixed Copper-Ethanolamine complexes

**KEEP OUT OF REACH OF CHILDREN
DANGER**

STATEMENT OF PRACTICAL TREATMENT FIRST AID

If in eyes: Call a physician. Hold eyelids open and flush with a steady gentle stream of water for 15 minutes.

If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol. Get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

See Additional Precautions Below

MANUFACTURED BY:

applied biochemists

MILWAUKEE, WI 53022
1-800-558-5106

GENERAL INFORMATION

CUTRINE®-PLUS, under field conditions, is effective in controlling a broad range of algae including: Chara, Spirogyra, Cladophora, Vaucheria, Ulothrix, Microcystis and Oscillatoria. **CUTRINE-PLUS** has also been proven effective in controlling the rooted aquatic plant, *Hydrilla verticillata*. The ethanalamines in **CUTRINE-PLUS** prevent the precipitation of copper with carbonates and bicarbonates in the water. Waters treated with **CUTRINE-PLUS** may be used for swimming, fishing, drinking, livestock watering or irrigating turf, ornamental plants or crops immediately after treatment.

DIRECTIONS FOR USE

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

SURFACE SPRAY/INJECTION

ALGAEICIDE APPLICATION

For effective control, proper chemical concentration should be maintained for a minimum of three hours contact time. The application rates in the chart are based on static or minimal flow situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three hour period, chemical may have to be metered in.

- Identify the algae growth present as one of the following types: Planktonic (suspended), Filamentous (mat forming), or Chara/Nitella.
- Determine the surface acreage (1 acre=43,560 sq. ft.) and average depth of infested area.
- Refer to the chart below to determine gallons of **CUTRINE-PLUS** to apply per surface acre.

Application Rates
Gallons Per Surface Acre

ALGAE TYPE	PPM COPPER	DEPTH IN FEET			
		1	2	3	4
Planktonic	0.2	0.6	1.2	1.8	2.4
Filamentous	0.2	0.6	1.2	1.8	2.4
Chara/Nitella	0.4	1.2	2.4	3.6	4.8

- For planktonic algae (suspended) algae and free-floating filamentous algae mats, application rates should be based upon treating only the upper 3 to 4 feet of water where algae is growing. Under conditions of heavy infestation, treat only 1/3 to 1/2 of the water body at a time to avoid fish suffocation caused by oxygen depletion from decaying algae.
- Before applying, dilute the required amount of **CUTRINE-PLUS** with enough water to ensure even distribution with the type of equipment being used. For most effective results, apply under calm and sunny conditions when water temperature is at least 60°F. Break up floating algae mats before spraying or while application is being made. Use hand or power sprayer adjusted to rain-sized droplets. Spray shoreline areas first to avoid trapping fish.

CUTRINE-PLUS Granular Algaecide may be used as an alternative in low volume flow situations, spot treatments or treatment of bottom-growing algae in deep water.

HERBICIDE APPLICATION (For Hydrilla Control)

CUTRINE-PLUS:

Control of *Hydrilla verticillata* can be obtained from copper concentrations of 0.4 to 1.0 ppm resulting from **CUTRINE-PLUS** treatment. Choose the application rate based upon stage and density of *Hydrilla* growth and respective water depth from the chart below.

Application Rates
Gallons/Surface Acre*

Growth/Stage Relative Density	PPM Copper	DEPTH IN FEET					
		1	2	3	4	5	6
Early Season Low Density	0.4	1.2	2.4	3.6	4.8	6.0	7.2
	0.5	1.5	3.0	4.5	6.0	7.5	9.0
Mid-Season Moderate Density	0.6	1.8	3.6	5.4	7.2	9.0	10.8
	0.7	2.1	4.2	6.3	8.4	10.5	12.6
Late Season/ High Density	0.8	2.4	4.8	7.2	9.6	12.0	14.4
	0.9	2.7	5.4	8.1	10.8	13.5	16.2
	1.0	3.0	6.0	9.0	12.0	15.0	18.0

* Application rates for depths greater than six feet may be obtained by adding the rates given for the appropriate combination of depths. Application rates should not result in excess of 1.0 ppm copper concentration within treated water.

CUTRINE®-PLUS: REWARD®TANK MIX

On waters where enforcement of use restrictions for recreational, domestic and irrigation uses are acceptable, the following mixture can be used as an alternative *Hydrilla* control method.

Tank mix 3 gallons of **CUTRINE-PLUS** with 2 gallons of **REWARD®**. Apply mixture at the rate of 5½ gallons per surface acre. Dilute with at least 9 parts water and apply as a surface spray or underwater injection. Observe all cautions and restrictions on the labels of both products used in this mixture.

***REWARD®** is a trademark of Syngenta Crop Protection, Inc.

PERMITS:

Some states may require permits for the application of this product to public waters. Check with your local authorities.

DRIP SYSTEM APPLICATION

FOR USE IN POTABLE WATER AND IRRIGATION CONVEYANCE SYSTEMS

- CUTRINE®-PLUS** should be applied as soon as algae or *Hydrilla* begins to interfere noticeably with normal delivery of water (clogging of lateral headgates, suction screens, weed screens and siphon tubes). Delaying treatment could perpetuate the problem causing massing and compacting of plants. Heavy infestations and low flow conditions increasing water flow rate during application may be necessary.
- Prior to treatment it is important to accurately determine water flow rates. In the absence of weirs, orifices, or similar devices which give accurate water flow measurements, volume of flow may be estimated by the following formula:

$$\text{Average Width (feet)} \times \text{Average Depth (feet)} \times \text{Velocity* (feet/second)} \times 0.9 = \text{Cubic Feet per Second (C.F.S.)}$$

*Velocity is the time it takes a floating object to travel a given distance. Dividing the distance traveled (feet) by the time (seconds) will yield velocity (feet/second). This measurement should be repeated at least three times at the intended application site and then averaged.

- After accurately determining the water flow rate in C.F.S. or gallons/minute, find the corresponding **CUTRINE-PLUS** drip rate on the chart below.

WATER FLOW RATE		CUTRINE-PLUS DRIP RATE*		
C.F.S.	Gal/Min	Qts./Hr.	ml/Min.	FL.Oz./Min.
1	450	1	16	0.5
2	900	2	32	1.1
3	1350	3	47	1.6
4	1800	4	63	2.1
5	2250	5	79	2.7

- Calculate the amount of **CUTRINE-PLUS** needed to maintain the drip rate for a period of 3 hours by multiplying Qts./Hr. x 3; ml/Min. x 180; or Fl. Oz./Min. x 180. Dosage will maintain 1.0 ppm Copper concentration in the treated water for the 3 hour period. Introduction of the chemical should be made in the channel at weirs or other turbulence-creating structures to promote the dispersion of chemical.
- Pour the required amount of **CUTRINE-PLUS** into a drum or tank equipped with a brass needle valve and constructed to maintain a constant drip rate. Use a stop watch and appropriate measuring container to set the desired drip rate. Readjust accordingly if flow rate changes during the 3 hour treatment period.
- Distance of control obtained down the waterway will vary depending upon density of vegetation growth. Periodic maintenance treatments may be required to maintain seasonal control.

GENERAL TREATMENT NOTES

The following suggestions apply to the use of **CUTRINE-PLUS** as an algaecide or herbicide in all approved use sites.

For optimum effectiveness...

- Apply early in the day under calm, sunny conditions when water temperatures are at least 60°F.
- Treat when growth first begins to appear or create a nuisance, if possible.
- Apply in a manner that will ensure even distribution of the chemical within the treatment area.
- Re-treat areas if re-growth begins to appear and seasonal control is desired. Allow one to two weeks between consecutive treatments.
- Allow seven to ten days to observe the effects of treatment (bleaching and breaking apart of plant material).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

STORAGE & DISPOSAL:

Keep container closed when not in use. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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:** Reseal container and offer for recondition or triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

ENVIRONMENTAL HAZARDS:

This product may be toxic to trout and other species of fish. Fish toxicity is dependent upon the hardness of water. Do not use in water containing trout if the carbonate hardness of water does not exceed 50 ppm.

NOTICE

Neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions carefully.

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

1. Product And Company Identification			
Supplier Applied Biochemists (WI) A division of Advantis Technologies, Inc. W175 N11163 Stonewood Drive, Suite 234 Germantown, WI 53022 Telephone Number: (262) 255-4449 FAX Number: (262) 255-4268 Web Site: www.appliedbiochemists.com		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	
Issue Date: 11/15/2006 Product Name: AB Cutrine Plus Chemical Name: Chelated Elemental Copper CAS Number: Not Established Chemical Family: Copper Algaecide Chemical Formula: Proprietary Mixture MSDS Number: 366			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
COPPERCARBONATE	12069-69-1		
MONOETHANOLAMINE	141-43-5		
TRIETHANOLAMINE	102-71-6		
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).			
3. Hazards Identification			
Primary Routes(s) Of Entry Eye Contact, Skin Contact			
Eye Hazards Corrosive to eyes.			
Skin Hazards May be corrosive to skin.			
Ingestion Hazards Harmful if swallowed. May cause burning of the mouth, throat and stomach.			
Inhalation Hazards Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, headache and nausea.			
Signs And Symptoms Contact with skin and eyes may be irritating.			
Conditions Aggravated By Exposure May cause skin sensitization.			

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

First Aid (Pictograms)



4. First Aid Measures

Eye

Call a physician or a poison control center immediately. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. DO NOT let the victim rub his eye(s).

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash clothing before reuse.

Ingestion

Give two glasses of water. Never give anything by mouth to an unconscious victim. DO NOT INDUCE VOMITING, unless directed to do so by medical personnel. Get medical attention immediately.

Inhalation

Get medical attention immediately. If breathing is difficult, give oxygen. If inhaled, remove to fresh air.

5. Fire Fighting Measures

Flash Point: ND °F

Extinguishing Media

Use CO₂ (Carbon Dioxide), dry chemical, or foam.

Fire Fighting Instructions

Avoid breathing vapors, gases and fumes. Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed material.

6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with ground corn cob. Avoid rinsing into sewer. Use appropriate containers to avoid environmental contamination.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Use only with adequate ventilation. Wash thoroughly after handling.

Handling Precautions

Avoid contact with eyes. Avoid contact with skin and clothing. Avoid contact with strong acids and nitrates

Storage Precautions

Keep out of reach of children.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling. Use safe chemical handling procedures suitable for the hazards presented by this material.

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust recommended.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

None normally required. If needed, use NIOSH approved respirator for organic vapors and mists.

9. Physical And Chemical Properties

Appearance

Blue viscous liquid

Odor

Slight

Chemical Type: Mixture

Physical State: Liquid

Melting Point: N/A °F

Boiling Point: Not Determined °F

Specific Gravity: 1.220-1.230 @ 24 deg C

Percent Volatiles: Not Determined

Vapor Pressure: Not Determined

Vapor Density: >1 (air = 1)

pH Factor: 10.3-10.5

Solubility: Miscible in water

Evaporation Rate: Not Determined

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Excessive heat. Thermal decomposition may cause oxides of carbon/nitrogen.

Incompatible Materials

Strong acids and nitrates.

Hazardous Decomposition Products

Oxides of Nitrogen and Carbon.

11. Toxicological Information

Acute Studies

Oral LD50 = 650-2420 mg/kg Rat*

Subacute Dietary LC50 = >2,500 ppm Leghorn Chicken*

Subacute Dietary LC50 = >1,000 ppm Ring-necked Pheasant**

Subacute Dietary LC50 = >1,000 ppm Mallard Duck**

*Data from 9% copper mixed ethanolamine complexes (Cutrine Plus).

**Data from 7.1% copper triethanolamine complexes (Cutrine).

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

12. Ecological Information

Ecotoxicological Information

96 Hour LC50 = <3.0 mg/l Rainbow Trout (44ppm Total Hardness)**

96 Hour LC50 = 56 mg/l Rainbow Trout (290 ppm Total Hardness)**

96 Hour LC50 = 13.3 mg/l Bluegill (48 ppm Total Hardness)*

96 Hour LC50 = 83 mg/l Bluegill (200 ppm Total Hardness)*

96 Hour LC50 = 67 mg/l Channel Catfish**

96 Hour LC50 = 211 mg/l Blue Shrimp (Juvenile)*

96 Hour LC50 = 68 mg/l Grass Shrimp**

96 Hour LC50 = 2,200 mg/l Fiddler Crab**

*Data from 9% copper mixed ethanolamine complexes (Cutrine Plus).

**Data from 7.1% copper triethanolamine complexes (Cutrine).

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name

CORROSIVE LIQUID, NOS (Copper Triethanolamine Complexes)

Hazard Class

8, PG III (<4L Consumer Commodity ORM-D)

DOT Identification Number

UN1760

DOT (Pictograms)



15. Regulatory Information

No Data Available...

NFPA	HMIS								
	<table><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>PERSONAL PROTECTION</td><td>D</td></tr></table>	HEALTH	2	FLAMMABILITY	1	REACTIVITY	1	PERSONAL PROTECTION	D
HEALTH	2								
FLAMMABILITY	1								
REACTIVITY	1								
PERSONAL PROTECTION	D								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW3

MSDS Preparer Phone Number: 770-521-5999

This MSDS Superceeds A Previous MSDS Dated: 10/21/2004

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

Disclaimer - Continued

or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Applied Biochemists (WI)

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

Dominion 2L Termiticide/Insecticide

Control Solutions, Inc.

Spill Emergency Phone: Chemtrec 800-424-9300

Health Emergency Phone: SafetyCall® International (866) 897-8050

Effective Date: July 24, 2007

EPA Reg. No. 53883-229

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: Dominion 2L Termiticide/Insecticide

Active Ingredient: Imidacloprid

Chemical Name: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

Chemical Formula: C₉H₁₀ClN₅O₂

COMPANY IDENTIFICATION:

Control Solutions, Inc.

5903 Genoa-Red Bluff

Pasadena, TX 77507-1041

UNITED STATES

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Imidacloprid	CAS No. 138261-41-3	21.40%
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3. HAZARD IDENTIFICATION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing.

ENVIRONMENTAL HAZARDS: This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on the foliage of blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This product is toxic to wildlife.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

4. FIRST AID

IF ON SKIN OR CLOTHING: Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration (preferably by mouth-to-mouth) if possible.

NOTE TO PHYSICIAN: No specific antidote is available. Treat patient symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: N/A

Flammable Limits (LFL-UFL): Unknown

Fire and Explosion Hazards: Can burn in fire releasing irritating and toxic gasses due to thermal decomposition or combustion.

Means of Extinction: Use foam, dry chemical, carbon dioxide or water spray.

Fire Fighting Instructions: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Cool closed containers exposed to fire with water spray. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage due to runoff. Equipment or materials involved in pesticide fires may become contaminated.

Firefighting Equipment: Self-contained breathing apparatus with full face piece.

Hazardous Combustion Products: Hydrogen cyanide, hydrogen chloride, carbon monoxide and nitrogen oxide.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Do not walk through spilled material and avoid breathing vapors and skin contact. Do not allow material to enter streams, sewers or other waterways or to contact vegetation.

For large spills, material should be recovered. For small spills, absorb with absorbent granules, spill control pads or other absorbent material. Carefully sweep up absorbed spilled material and place in covered container for disposal. Scrub contaminated area with soap and water and use dry absorbent granules to collect wash solution for disposal. Contaminated soil may have to be removed and disposed.

7. HANDLING AND STORAGE

Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: To avoid exceeding exposure limits, handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Tight fitting safety goggles. Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride (PVC). Long-sleeved shirt, long pants and shoes plus socks. A respirator is not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust / mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

General: Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been heavily contaminated with this product; do not reuse them. Follow the

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white viscous liquid

Odor: mild

pH: 7.62

Flashpoint (PMA-4): Not established

Density: 1.111 g/cm³

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extreme Temperatures.

CHEMICAL STABILITY: Stable but may decompose if heated.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, hydrogen cyanide and oxides of nitrogen and carbon.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat): 1,190 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 5,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): > 3.452 mg/L

EYE IRRITANT

Rabbit – Non-Irritating.

SKIN IRRITATION

Rabbit – Non-Irritating

SENSITIZATION

Guinea Pig – Not a Contact Sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

ADDITIONAL DATA: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on the foliage of blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This product is toxic to wildlife.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate 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: 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.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT

DOT HAZARD CLASS OR DIVISION: N/A

DOT UN/NA NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

MARINE POLLUTANT: Not Listed

DOT EMERGENCY RESPONSE GUIDE: N/A

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

SARA Title III – Section 302 Extremely Hazardous Substances

Not Listed

SARA Title III – Section 311/312 Hazard Categories

Immediate

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA –

None Listed

CALIFORNIA PROP 65 STATUS –

Not listed

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

DISCLAIMER:

Control Solutions, Inc. believes the information and recommendations provided above to be accurate. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided above relates only to the specific product designated and may not be applicable

where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Additionally, as the conditions and methods of use are beyond the control of Control Solutions, Inc., Control Solutions, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Dominion 2L Termiticide/Insecticide

For use by professional personnel licensed or registered by the state to apply termiticide, turf maintenance, nursery/greenhouse, and/or landscaping/ornamental products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product.

PREVENTS AND CONTROLS SUBTERRANEAN TERMITES, AND CARPENTER ANTS

FOR USE ON TURFGRASS (INCLUDING SOD FARMS, LANDSCAPE ORNAMENTALS, FRUIT AND NUT TREES AND INTERIOR PLANTSCAPES.

FOLIAR AND SYSTEMIC INSECT CONTROL

ACTIVE INGREDIENT:

Imidacloprid: 1-1(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine21.4%

INERT INGREDIENTS:78.6%

Total:100.0%

Contains 2 pounds of imidacloprid per gallon.

Shake well before using.

EPA Reg. No. 53883-229

EPA Est. No. 53883-TX-002

Keep out of reach of children

CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

FIRST AID	
If Swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water <i>if</i> able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If Inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing	<ul style="list-style-type: none">• Take off contaminated clothing• Rinse skin immediately with plenty of soap and water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
If in Eyes	<ul style="list-style-type: none">• Hold eyelids open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison central center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
No specific antidote is available. Treat patient symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

Personal Protective Equipment (PPE)

WPS and Termiticide Uses:

Applicators and other handlers (mixers and loaders) who handle this product for uses covered by the Worker Protection Standard (40 CFR part 170) – such as sod farms; or who are using this product as a termiticide, must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

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

When used as a termiticide, once the product is diluted as directed on the label, shirt, pants, shoes and socks may be worn. All pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

Non-WPS Uses:

Applicators and other handlers must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

Engineering controls statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(4)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

User should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Apply this product only as specified on this label. Extreme care must be taken to avoid runoff. Apply only to soil or other fill substrate that will accept the solution at the specified rate. Do not treat soil that is water-saturated or frozen or in any conditions where run-off or movement from the treatment area (site) is likely to occur.

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, decontamination, 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 only 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 applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas 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:

Coveralls

- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. if you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.

APPLICATION AS A TERMITICIDE

DOMINION 2L TERMITICIDE/INSECTICIDE may be used in and around structures and building construction to prevent and control termite infestations.

GENERAL USE INSTRUCTIONS

For subterranean termite control, specific treatment recommendations may differ due to regulations, treatment procedures, soil types, construction practices and other factors. The purpose of chemical soil treatment for termite control is to establish a continuous chemical treated zone (horizontal and/or vertical) between the wood and other cellulose material in the structure and the termite colonies in the soil. Follow all federal, state, and local regulations and treatment standards for protection of a structure from termites. The establishment of an aerial or above ground colony may require additional treatments to control the termites, as well as landscape modifications, and/or structural repairs to deny termites of a moisture source. Use a 0.05% to 0.1% dilution based on current recommendations. For a typical control situation, a 0.05% dilution is used. A 0.1% dilution may be used when a severe or persistent infestation exists..

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

Structures that contain wells or cisterns within the foundation of the structure can only be treated using the treated backfill method described in the treatment around wells and cisterns section of this label. Consult state and local specifications for recommended distances of wells from treated area, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

MIXING: Refer to **MIXING TABLE** for correct amount of DOMINION 2L TERMITICIDE/INSECTICIDE to be used.

Follow this procedure for mixing the termiticide dilution:

1. Fill tank to 1/3 full.
2. If using large sprayer, start pump to begin bypass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of DOMINION 2L TERMITICIDE/INSECTICIDE. Add remaining amount of water. Let pump

run and allow recirculation through the hose for 2 to 3 minutes.

MIXING TABLE FOR DOMINION 2L TERMITICIDE/INSECTICIDE		
EMULSION CONCENTRATE	GALLONS WATER	AMOUNT OF IMI 2 LB
0.05%	100	27.5 fl oz
	50	13.8 fl. oz.
	25	6.9 fl oz
	1	0.3 fl oz
0.1%	100	55.0 fl. oz.
	50	27.5 fl oz
	25	13.8 fl oz
	1	0.6 fl oz

IN-LINE INJECTION: Use the table below to mix the appropriate amount of DOMINION 2L TERMITICIDE/INSECTICIDE for the desired injection volume of finished emulsion.

MIXING TABLE - INJECTOR	
INJECTOR VOLUME	CONCENTRATION
0.3 fl oz/gal	0.05%
0.6 fl oz/gal	0.1%

CONVERSION KEY: 128 fl oz = 1 gal; 16 fl oz = 1 pint; 8 pints = 1 gal; 1 fl oz = 29.5 mL

APPLICATION VOLUME

The application volumes described in the DOMINION 2L TERMITICIDE/INSECTICIDE DIRECTIONS FOR USE should be used whenever possible. However, where soil conditions will not accept application of 4 gallons of DOMINION 2L TERMITICIDE/INSECTICIDE per 10 linear feet, twice the DOMINION 2L TERMITICIDE/INSECTICIDE concentration may be applied in 2 gallons of solution per 10 linear feet. For example, if 0.05% is the correct use rate to be applied in 4 gallons of water, then 2 gallons of 0.1% dilution may be used per 10 linear feet to deliver an equivalent amount of DOMINION 2L TERMITICIDE/INSECTICIDE per unit of soil.

PRE-CONSTRUCTION TREATMENT

Do not apply at a lower dosage and/or concentration than specified on this label for application prior to installation of the finished grade.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

CONCRETE SLAB-ON-GROUND OR BASEMENTS: Apply an overall treatment to the entire surface of soil or other substrate to be covered by the slab including areas to be under carports, porches, basement floor and entrance platforms. Apply at the rate of 1 gallon of solution to accurately and uniformly cover 10 square feet. If fill under slab is gravel or other coarse aggregate, apply at the rate of 1.5 gallons or sufficient volume of solution, to accurately and uniformly cover 10 square feet. In addition, apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet to provide a uniform treated zone in soil at critical areas such as along the inside of foundation walls, and around plumbing, bath traps, utility services, and other features that will penetrate the slab.

After completion of grading, make an application by trenching or trenching and rodding around the slab or foundation perimeter. Rodding may be done from the bottom of a shallow trench. When rodding, rod holes must be spaced in a manner that will allow for a continuous chemical treated zone, not to exceed 12 inches, to be deposited along the treated area. Rod holes should not extend below the footing. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet, per foot of depth to provide a uniform treated zone. When trenching, the trench along the outside foundation should be about 6 inches in width and 6 inches in depth. Use a low pressure spray (not to exceed 25 PSI at the treatment tool when the valve is open) to treat soil which will be placed in the trench after rodding. Mix the spray solution with soil as it is being placed in the trench. When treating voids in hollow masonry units, use 2 gallons of solution per 10 linear feet of wall. Apply solution so it will reach the footing by injecting into the lower areas of the wall, just above the floor or footing.

When treating foundations deeper than 4 feet, apply the termiticide as the backfill is being replaced, or if the construction contractor ,

fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Rodding in trench followed by flooding of trench and treatment of backfill may provide a better opportunity to achieve a continuous chemical treated zone than using soil rodding alone to establish a vertical termiticide treated zone.

CRAWL SPACES: Application must be made by trenching or trenching and rodding downward along the inside and outside of foundation walls, around piers, interior supports in contact with the soil, plumbing, and utility services. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet, per foot of depth to provide a uniform treated zone. Rodding may be done from the bottom of a shallow trench to top of the footing or a minimum of 4 feet. When rodding, rod holes must be spaced in a manner that will allow for a continuous chemical treated zone to be deposited along the treated area. Rod holes should not extend below the footing. When trenching, the trench should be about 6 inches wide and 6 inches deep. Use a low pressure spray to treat soil which will be placed in the trench, mixing the spray solution with soil as it is being placed in the trench.

HOLLOW BLOCK FOUNDATIONS OR VOIDS: Hollow block foundations or voids in masonry resting on the footing may be treated to provide a continuous chemical treated zone in the voids at the footing. Apply 2 gallons of solution per 10 linear feet to the lower part of the void so that it reaches the top of the footing or soil.

Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site (refer to **PRECAUTIONARY STATEMENTS**). Do not allow people or pets to contact or to reoccupy the contaminated areas of the structure until the clean up is completed.

POST-CONSTRUCTION TREATMENT

CONCRETE SLAB-ON-GROUND: To apply a treatment under the slab, including attached porches, carports, entrance platforms, garages and similar slab structures, it may be necessary to drill through the slab or exterior foundation. Drill holes should be spaced in a manner that will allow for application of a continuous chemical treated zone. Treat all existing cracks and cold, construction or expansion joints. Also, treat around bath traps, plumbing and utility services which penetrate the slab. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet per foot of depth to provide a uniform treated zone. **DO NOT MAKE TREATMENT UNTIL LOCATION OF HEAT OR AIR CONDITIONING DUCTS AND VENTS ARE KNOWN AND IDENTIFIED. USE EXTREME CAUTION TO AVOID CONTAMINATION OF DUCTS AND VENTS.** Plug and fill all drilled holes in commonly occupied areas with a suitable sealant. Plugs must be of non-cellulose material or covered by an impervious, non-cellulose material.

An application should be made by trenching or trenching and nodding around the outside of the foundation wall. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet per foot of depth to provide a uniform treated zone. When trenching, the trench along the outside foundation should be about 6 inches wide and 6 inches deep. Use a low pressure spray to treat soil as it is being placed in the trench.

Rodding can be done from the bottom of a shallow trench. When rodding, rod holes should be spaced in a manner that will allow for a continuous chemical treated zone, not to exceed 12 inches, to be deposited along the treated area. Rod hole depth should not extend below the footing.

BATH TRAPS: Exposed soil or soil covered with tar or a similar type sealant beneath and around plumbing and/or drain pipe entry areas should be treated with 3 gallons of solution per square foot. An access door or inspection vent should be cut and installed, if not already present. After inspection and removal of any wood or cellulose debris, the soil can be treated by rodding or drenching the soil.

CRAWL SPACES: When there is insufficient clearance between floor joists and ground surfaces to allow applicator access, excavate, if possible, and treat according to crawl spaces (refer to **PRE-CONSTRUCTION TREATMENT**). If unable to excavate, crawl space soil treatment may be used to prevent surface access by termites. Apply 1 gallon of solution (see **APPLICATION VOLUME**) per 10 square feet to provide a uniform chemical treated zone. Use a very coarse spray at a pressure not exceeding 25 PSI at the treatment tool when the valve is open.

Where a crawl space cannot be reached with the application wand, use extension wands or other suitable equipment to apply a coarse spray on the soil at the above rates. Do not apply to inaccessible crawl space areas using pressures greater than 25 PSI at the treatment tool when the valve is open.

Treatment may also be made by drilling through the foundation wall or through the floor above and treating the soil perimeter at a rate of 1 gallon of solution per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

To prevent subterranean termites from constructing mudtubes between soil and crawl space wood members above, an overall soil treatment of this product may be applied. Remove all cellulose debris before application. Apply 1 gallon of solution (see **APPLICATION VOLUME**) per 10 square feet to provide a uniform chemical treated zone.

SHALLOW FOUNDATIONS: For shallow foundations, one foot or less in depth, dig a narrow trench approximately 6 inches wide and deep along the outside and inside of the foundation walls, being careful not to dig below the bottom of the footings. For foundations with exposed footings, dig a trench alongside the footing taking care not to undermine the footing. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet to the top of footer to provide a uniform treated zone. The dilution should be applied to the trench and mixed with the soil as it is placed in the trench.

BASEMENTS - OUTSIDE PERIMETER: Along the outside of the exterior walls, an application must be made by trenching or rodding within the trench. Rodding depth should be to the top of the footer, or to a minimum of 4 feet or according to state or local regulations. When rodding through a trench, dig a narrow trench about 6 inches wide and 6 inches deep. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet, per foot of depth to provide a uniform treated zone by rodding through the trench. Use a low pressure spray to treat soil which will be placed into the trench after rodding. Mix spray solution with the soil as it is being placed in the trench.

BASEMENTS - INSIDE PERIMETER: If necessary, treat by drilling along the perimeter of the interior walls. Applications also may be necessary around Sewer pipes, floor drains, conduits, expansion joints or any cracks or holes in the basement floor. Apply 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet to provide a uniform treated zone.

Drill holes should be spaced in a manner that will allow for application of a continuous chemical treated zone. Plug and fill all drill holes in commonly occupied areas of the building with a suitable sealant. Plugs must be of non-cellulose material or covered by an impervious, non-cellulose material.

HOLLOW BLOCK FOUNDATION OR VOIDS: Hollow block foundations or voids in masonry resting on the footing may be treated to provide a continuous chemical treated zone in the voids at the footing. Apply 2 gallons of solution per 10 linear feet to the lower part of the void so that it reaches the top of the footing or soil. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site (refer to **PRECAUTIONARY STATEMENTS**). Do not allow people or pets to contact or to reoccupy the contaminated areas of the structure until the clean up is completed.

PLENUMS: For plenum-type structures which use a sealed underfloor space to circulate heated and/or cooled air throughout the structure, apply the dilution at the rate of 4 gallons of solution (see **APPLICATION VOLUME**) per 10 linear feet, per foot of depth of soil to provide a uniform treated zone adjacent to both sides of foundation walls, supporting piers, plumbing and conduits. The soil should be treated by trenching to a depth of 6 inches or trenching and rodding (where conditions permit) or to the top of the footing. When conditions will not permit trenching or rodding, a surface application adjacent to interior foundation walls may be made, but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation walls, piers or pipes. The surface application will be made at a rate of 1.5 gallons of solution per 10 square feet as a very coarse spray under low pressure (not to exceed 25 PSI when measured at the treating tool when valve is on).

When treating plenums, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

TREATMENT AROUND WELLS OR CISTERNS: Do not contaminate wells or cisterns.

Structures With Wells/Cisterns Inside Foundations: Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not apply within 5 feet of any well or cistern by rodding and/or trenching or by the backfill method. Treat soil between 5 and 10 feet from the well or cistern by the backfill method only. Treatment of soil adjacent to water pipes within 3 feet of grade should only be done by the backfill method.
 - a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
 - b) Treat the soil at the rate of 4 gallons of solution per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
 - c) After the treated soil has absorbed the solution, replace the soil into the trench.

Structures With Adjacent Wells/Cisterns and/or Other Water Bodies: Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

1. Prior to treatment, if feasible, expose the water pipes) coming from the well to the structure, if the pipes) enter the structure within 3 feet of grade.
2. Prior to treatment applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains

that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.

- When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

FOAM APPLICATIONS

Construction practices, soil subsidence and other factors may create situations in which a continuous chemical treated zone cannot be achieved using conventional treatment alone. In situations where necessary, conventional application methods can be supplemented through use of foam generating equipment, or similar devices, to provide a continuous treated zone.

Foam application may be made alone or in combination with conventional application methods, provided that the labeled amount of active ingredient per unit area is used.

Foam Application Use Directions: Mix appropriate concentration of DOMINION 2L TERMITICIDE/INSECTICIDE in water and add the manufacturer's recommended quantity of foam agent to the DOMINION 2L TERMITICIDE/INSECTICIDE solution (see table for foaming recommendations). Apply a sufficient volume of DOMINION 2L TERMITICIDE/INSECTICIDE foam alone or in combination with liquid solution to provide a continuous treated zone at the recommended rate for specific application sites.

NOTE: Add the manufacturer's recommended quantity of foam agent to the DOMINION 2L TERMITICIDE/INSECTICIDE solution.

[Only one of the tables below will be used based upon the size of container offered for sale]

[FOR 240 ML SIZE ONLY]

MIXING TABLE - DOMINION 2L TERMITICIDE/INSECTICIDE FOAM

IMI 2 lb (mL)	GALLONS OF WATER	FOAM EXPANSION RATIO	FINISHED FOAM (0.05% ai)
160	1	20:1	20 gal
80	1	10:1	10 gal
40	1	5:1	5 gal

MIXING TABLE - DOMINION 2L TERMITICIDE/INSECTICIDE FOAM

IMI 2 lb (fl oz)	GALLONS OF WATER	FOAM EXPANSION RATIO	FINISHED FOAM (0.05% ai)
6.9	1	25:1	25 gal
	2.5	10:1	
	5	5:1	
13.8	1	50:1	50 gal
	2.5	20:1	
	5	10:1	

Depending on the circumstances, foam applications may be used alone or in combination with liquid solution applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids, wall voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid applications must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the gallons of DOMINION 2L TERMITICIDE/INSECTICIDE must be applied as a typical liquid treatment. The remaining 25% or fewer gallons is delivered to appropriate locations using a foam application.

RETREATMENT

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the treated zone due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide treated zone in the soil. The vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary, depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the treated zone. Retreatment may be made as either a spot or complete treatment.

When a structure is not known to be reinfested and the treated zone is not disturbed, but where the structure was last treated five or more years ago, retreatment may be performed if, in the judgment of the applicator, it is necessary to ensure adequate protection of the structure. In determining the timing of any retreatment, the applicator should consider efficacy and/or degradation data and/or site-specific conditions and previous experience that indicate a vulnerability of the structure to termite attack.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or treated zone disruption has occurred.

When another registered termite control product/system is used as the primary treatment for prevention or control of subterranean termites and is applied to all label-specified areas, DOMINION 2L TERMITICIDE/INSECTICIDE may be applied as a spot application in a secondary treatment to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks. The outside foundation wall, and areas of known or suspected activity at either a pre-construction or post-construction timing. These secondary treatments must be made applied in amounts and concentration in accordance with label directions relevant to the treatment area(s) to receive the secondary treatment.

PERIMETER PEST CONTROL

Treat soil, turf or ground cover adjacent to the structure where ants are trailing or may find food or harborage. Apply to flower, shrub or ornamental plant beds adjacent to the structure where ants may find food or forage. To control ants tunneling in soil apply a 0.05% to 0.1% solution as a drench or soil injection at intervals to establish a continuous treated zone. Treat along the edge of walls, driveways or other hard surfaces where ants are tunneling beneath the surface.

Apply in sufficient water to cover the foliage and soil area being treated. Maximum application is once per month to maintain control.

Do not allow residents or pets into the immediate area during the application or contact with treated areas until spray has dried.

Do not use this product against native or imported fire ants, pharaoh or harvester ants.

NOTE: In instances of high pest pressures and quick knockdown or elimination at pest entry points is needed, additional treatments using DOMINION 2L TERMITICIDE/INSECTICIDE with targeted applications of a pyrethroid to places where pests enter the structure may be made. Read and follow all label directions for use of this companion product.

GENERAL PRECAUTIONS FOR APPLICATIONS

- After treatment, plug and fill all holes drilled in concrete slab areas of the building with a suitable sealant.
- Do not apply solution until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into the structural elements.
- Do not plant for the purpose of consumption, edible plants into the treated areas of soil.
- Avoid contamination of public and private water supplies.
- Use anti-backflow equipment or an air gap on filling hoses.
- Consult State, Federal, or local authorities for information regarding the approved treatment practices for areas in close proximity to potable water supplies.

APPLICATION ON TURFGRASS

DOMINION 2L TERMITICIDE/INSECTICIDE may be used to control insect pests on turfgrass in home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, athletic fields and sod farms.

DOMINION 2L TERMITICIDE/INSECTICIDE controls soil inhabiting pests such as Northern & Southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis*; Green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs. *Spherophorus* spp.; Annual bluegrass weevil, *Hyperodes* spp.; Black turfgrass atanius, *Atanius spretulus* and *Aphodius* spp. European Crane Fly *Tipula paludosa*, and mole crickets, *scapteriscus* spp. DOMINION 2L TERMITICIDE/INSECTICIDE can also be used for suppression of cutworms and chinch bugs.

For optimum control, make applications preceding or during the egg laying period of the target pest. The active ingredient in DOMINION 2L TERMITICIDE/INSECTICIDE has enough residual activity so that applications can be made preceding the egg laying activity. Application timing can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Most favorable control will be achieved when applications are made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Do not make applications when turfgrass areas are waterlogged or the soil is saturated with water. Sufficient distribution of the active ingredient cannot be achieved under these conditions. The treated turf area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Applications cannot exceed a total of 1.6 pints (0.4 lb of active ingredient) per acre per year.

APPLICATION EQUIPMENT FOR USE ON TURFGRASS

Apply DOMINION 2L TERMITICIDE/INSECTICIDE in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to

ensure that equipment is working properly.

Do not apply through any irrigation system.

RECOMMENDED APPLICATIONS

TURF GRASSES

PEST	RATE	APPLICATION INSTRUCTIONS
Larvae of: Annual bluegrass weevil Asiatic garden beetle Billbug Black turfgrass ataenius Cutworms (suppression) European chafer European crane fly Green June Beetle Japanese beetle Northern Masked chafer Oriental beetle <i>Phyllophaga</i> spp. Southern masked chafer	1 .25 to 1.6 pt/A or 0.46 to 0.6 fl. oz. (14 to 17 mL) per 1000 sq. ft.	For best control of grubs, billbugs, annual bluegrass weevil, and European Crane Fly, apply prior to egg hatch of the target pest. Read APPLICATION EQUIPMENT section of this label.
Chinchbugs (suppression) Mole crickets	1.6 pt /A or 0.6 fl. oz. (17 mL) per 1000 sq. ft.	For suppression of chinchbugs, apply before hatching of the first instar nymphs. To control mole crickets apply before or during the peak egg hatch period. Use a curative insecticide in addition to DOMINION 2L TERMITICIDE/INSECTICIDE when adults or large nymphs are present and actively tunneling. Follow label instructions for other insecticides when tank-mixing.

Consult your local turf, state Agricultural Experiment Station, or State Extension Service Specialists for more specific information regarding timing of application.

NOTE: For best control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. Do not apply more than 1.6 pt (0.4 lb of active ingredient) per acre per year. Avoid mowing turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.

APPLICATION TO ORNAMENTALS

DOMINION 2L TERMITICIDE/INSECTICIDE is for use on ornamentals in commercial and residential landscapes and interior plantscapes. DOMINION 2L TERMITICIDE/INSECTICIDE is a systemic product and will be taken up into the plant system from root uptake. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. The addition of a nitrogen containing fertilizer, where applicable, into the solution may enhance the uptake of the active ingredient. Application can be made by foliar application or soil applications; including soil injection, drenches, and broadcast sprays. Foliar applications offer locally systemic activity against insect pests.

When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is taken up throughout the plant. In some cases, this translocation delay could take 60 days or longer. For this reason, applications should be made prior to anticipated pest infestation to achieve optimum levels of control.

For outdoor ornamentals, broadcast applications cannot exceed a total of 1.6 pints (0.4 lb of active ingredient) per acre per year.

Ant Management Programs

Use DOMINION 2L TERMITICIDE/INSECTICIDE to control aphids, scale insects, mealybugs and other sucking pests on ornamentals to limit the honeydew available as a food source for ant populations. DOMINION 2L TERMITICIDE/INSECTICIDE applications can be then be supplemented with residual sprays, bait placements or other ant control tactics to further reduce the pest population.

NOTE: Not for use in commercial greenhouses, nurseries, or on grass grown for seed, or on commercial fruit and nut trees.

APPLICATION EQUIPMENT FOR FOLIAR APPLICATIONS

DOMINION 2L TERMITICIDE/INSECTICIDE mixes readily with water and may be used in many types of application equipment. Mix product with the required amount of water and apply as desired dependent upon the selected use pattern.

When making foliar applications on hard to wet foliage such as holly, pine, or ivy, the addition of a spreader/ sticker is recommended. If concentrate or mist type spray equipment is used, an equivalent amount of product should be used on the area sprayed, as would be used in a dilute application.

DOMINION 2L TERMITICIDE/INSECTICIDE has been found to be compatible with commonly used fungicides, miticides, liquid fertilizers, and other commonly used insecticides. Check physical compatibility using the correct proportion of products in a small jar test if local experience is unavailable.

Do not apply through any irrigation system.

RECOMMENDED APPLICATIONS

FOR USE ONLY IN AND AROUND INDUSTRIAL AND COMMERCIAL BUILDINGS AND RESIDENTIAL AREAS.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Trees Shrubs Evergreens Flowers Foliage plants Groundcovers Interior plantscapes	Adelgids Aphids Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Mealybugs Psyllids Sawfly Larvae Thrips (suppression) Whiteflies	1.5 fl. oz. (45 mL) per 100 gal of water	Foliar Applications: Begin applications before the onset of high pest populations and reapply as needed.
	White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga spp. Asiatic garden beetle, Oriental beetle)	0.46 to 0.6 fl. oz. (14 to 17 mL) per 1000 sq. ft.	Broadcast Applications: Use enough water to mix the product and thoroughly apply to the treatment area. Do not use less than 2 gallons of water per 1000 sq ft. For best results, irrigate after application to incorporate DOMINION 2L TERMITICIDE/INSECTICIDE into the upper soil layer. For additional use directions, refer to the FLOWERS and GROUND COVERS section of this label.

SOIL INJECTION* AND SOIL DRENCH APPLICATIONS IN AND AROUND INDUSTRIAL AND COMMERCIAL BUILDINGS AND RESIDENTIAL AREAS, AND STATE, NATIONAL, AND PRIVATE WOODED AND FORESTED AREAS

***No Soil Injection Applications Allowed in Nassau or Suffolk Counties of New York.**

PEST	CROP/RATE	APPLICATION INSTRUCTIONS	REMARKS
Adelgids Aphids Armored scales (suppression) Black vine weevil larvae Emerald ash borer Eucalyptus longhorned borer Flatheaded borer (including bronze birch and alder borer) Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter)	<p style="text-align: center;">TREES</p> 0.1 to 0.2 fl. oz. (3 to 6 mL) per inch of trunk diameter (D.B.H.)	<p>SOIL INJECTION: Grid System: Space holes in a grid pattern on 2.5 foot centers, extending to the drip line of the tree. Circle System: Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line. Basal System: Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base. Soil Drench: Apply uniformly as a drench around the base of the tree in not less than 10 gallons of water per 1000 square feet. Direct application to the root area. Remove plastic or any other barrier that will stop solution from reaching the root zone.</p>	Use enough water to mix the product and inject an equal amount of solution in each hole. Use low pressure and sufficient solution for distribution of the liquid into the treatment area. For best control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per tree. For Control of Specified Borers: Trees with existing insect damage and stress may not recover after treatment with DOMINION 2L TERMITICIDE/INSECTICIDE.
Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales Thrips (suppression)	<p style="text-align: center;">SHRUBS</p> 0.1 to 0.2 fl. oz. (3 to 6 mL) per foot of shrub height	<p>Soil Injection: Apply at the recommended dosage to each plant. Soil Drench: Apply uniformly as a drench around the base of the tree in not less than 10 gallons of water per 1000 square feet. Direct application to the root area. Remove plastic or any other barrier that will stop solution from reaching the root zone.</p>	Use enough water to mix the product and inject an equal amount of solution in each hole. Use low pressure and sufficient solution for distribution of the liquid into the treatment area. For best control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per shrub.
White grub larvae Whiteflies	<p style="text-align: center;">FLOWERS AND GROUNDCOVERS</p> 0.46 to 0.6 fl. oz. (14 to 17 mL) per 1000 sq ft	Apply as a broadcast treatment before or after planting, or apply after plants are established. Mix into soil. For best control on established plants, irrigate thoroughly after application.	

FOLIAR APPLICATIONS FOR USE ONLY IN AND AROUND RESIDENTIAL AREAS

CROP	PEST	RATES	APPLICATION INSTRUCTIONS
<p>POME FRUITS Apple Crabapple Loquat Mayhaw Pear Pear (oriental) Quince</p>	<p>Aphids (except Woolly apple aphid) Leafhoppers (including glassy-winged sharpshooter) Leafminer Mealybugs* San Jose scale*</p>	<p>1.5 fl. oz. (45 mL) per 100 gal or 6.0 fl. oz./A¹</p>	<p>Apply specified dosage as foliar spray as needed after petal-fall is complete.</p> <p>For control of rosy apple aphid, apply prior to leafrolling caused by the pest.</p> <p>For first generation leafminer control, make first application as soon as petal-fall is complete. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. DOMINION 2L TERMITICIDE/INSECTICIDE will not control late stage larvae.</p> <p>For San Jose Scale, time applications to the crawler stage. Treat each generation.</p> <p>For late season (preharvest) control of leafhopper species, apply DOMINION 2L TERMITICIDE/INSECTICIDE while most leafhoppers are in the nymphal stage.</p> <p>For optimal control of mealybug, insure good spray coverage of the trunk and scaffolding limbs or other resting sites of the mealybug.</p> <p>Do not apply more than 6.0 fluid ounces per acre in a single application. Do not make more than 5 applications.</p> <p>Allow 10 or more days between applications. Allow at least 7 days between last application and harvest.</p> <p>* Not for use in California for control on pears.</p>
<p>Pecan*</p>	<p>Yellow pecan aphid Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera</p>	<p>1.5 fl. oz. (45 mL) per 100 gal or 6.0 fl. oz./A¹</p>	<p>Make foliar applications as pests begin to build before populations become extreme. Two applications at a 10 to 14 day interval may be required to achieve control. Scout and retreat if needed.</p> <p>Thorough uniform coverage of foliage is necessary for optimal control. Addition of an organosilicone-based spray adjuvant at a rate not to exceed the adjuvant manufacturer's recommended use rate may improve coverage.</p> <p>Do not apply more than a total of 18.0 fluid ounces of DOMINION 2L TERMITICIDE/INSECTICIDE per acre per year. Do not make more than 3 applications.</p> <p>Allow 10 or more days between applications.</p> <p>* Use on pecans not permitted in California unless directed by specific supplemental labeling.</p>
<p>¹ The amount of DOMINION 2L TERMITICIDE/INSECTICIDE required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees.</p>			

FOLIAR APPLICATION FOR USE ONLY IN AND AROUND INDUSTRIAL AND COMMERCIAL BUILDINGS AND RESIDENTIAL AREAS.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Grapes	Leafhoppers (including glassy-winged sharpshooter) Mealybugs	1.5 fl. oz. (45 mL) per 100 gal or 3.0 fl. oz/A (90 mL/A)	Apply specified dosage as a foliar spray using 200 gallons of water per acre. Do not apply more than a total of 6.0 ounces of DOMINION 2L TERMITICIDE/INSECTICIDE per acre per year. Allow at least 14 days between applications. Applications may be applied up to and including day of harvest.

RESTRICTIONS

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Avoid runoff or puddling of irrigation water following application. Keep children and pets off treated area until dry.
- Avoid application of DOMINION 2L TERMITICIDE/INSECTICIDE to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply more than 1.6 pt (0.4 lb of active ingredient) per acre per year.

Treated areas may be replanted with any crop specified on an imidacloprid label, or with any crop for which a tolerance exists for the active ingredient.

For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active Ingredient have been established, a 12-month plant-back interval should be observed.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store water soluble packets in original container and out of reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticide below. In spill or leak incidents, keep unauthorized people away.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site (in the treatment area) or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Control Solutions control it is impossible for Control Solutions, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT ALLOWED BY APPLICABLE LAW, CONTROL SOLUTIONS, INC. MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: TO THE EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT CONTROL SOLUTIONS, INC.'S ELECTION, THE REPLACEMENT OF PRODUCT.

Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507

PULL HERE TO OPEN ►



Reward®

Landscape and Aquatic Herbicide

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS, AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL.

DO NOT USE THIS PRODUCT FOR REFORMULATION.

Active Ingredient:

Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinedium dibromide].	37.3%
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Other Ingredients:	62.7%
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Total:	100.0%
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Contains 2 lbs. diquat cation per gal. (3.73 lbs. diquat dibromide per gal.)

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements on label.

EPA Reg. No. 100-1091

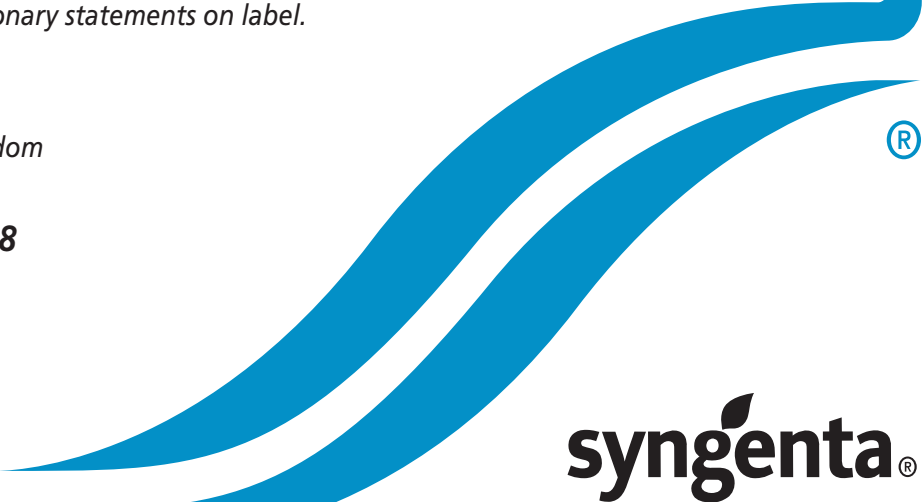
EPA Est. 100-LA-001

Product of United Kingdom
Formulated in the USA

**SCP 1091A-L2E 0508
264067**

2.5 gallons

Net Contents



syngenta®

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIANS	
<p>To be effective, treatment for diquat poisoning must begin IMMEDIATELY. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
HOTLINE NUMBER	
<p>For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing.

continued...

PRECAUTIONARY STATEMENTS (*continued*)

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils. If you want more options, follow the instructions for Category A on an EPA Chemical Resistance Category Selection Chart.

Mixers, Loaders, Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants or coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- Face shield when mixing or loading

Exception: After this product has been diluted to 0.50% Reward or less in water (i.e., the labeled rate for some spot applications), applicators for AQUATIC SURFACE APPLICATIONS must, at a minimum, wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eyewear

Exception: At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note - Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section):

- Short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. When using the closed system, mixers and loaders PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the 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 WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Prolonged contact of the product with the skin may produce burns.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to aquatic invertebrates. **For Terrestrial Uses**, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water. **For Aquatic Uses** do not apply directly to water except as specified on this label.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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

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, decontamination, 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 only 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 24 hours.

PPE required for early entry to treated areas 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:

- Coveralls over short-sleeved shirt and short pants, or coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

SPECIFIC USE DIRECTIONS

Reward Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. – except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass – nonfood or feed crop); and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Reward Landscape and Aquatic Herbicide controls weeds by interfering with photosynthesis within green plant tissue. Weed plants should be succulent and actively growing for best results. Rinse all spray equipment thoroughly with water after use. Avoid spray drift to crops, ornamentals, and other desirable plants during application, as injury may result. Application to muddy water may result in reduced control. Minimize creating muddy water during application. Use of dirty or muddy water for Reward Landscape and Aquatic Herbicide dilution may result in reduced herbicidal activity. Avoid applying under conditions of high wind, water flow, or wave action.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they should be observed.

Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See **Wind, Temperature and Humidity, and Temperature Inversions**).

Controlling Droplet Size

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 ft. above the top of the target plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops).

COMMERCIAL GREENHOUSES AND NURSERIES

For general weed control in commercial greenhouses (beneath benches), field grown and container stock, and other similar areas, Reward Landscape and Aquatic Herbicide may be applied preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray. Reward Landscape and Aquatic Herbicide may also be applied preemergence in ornamental seed crops (except in the state of California). Avoid contact with desirable foliage as injury may occur. Do not use on food or feed crops.

Spot spray: 1-2 qts. Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of water, or 0.75 oz. (22 mls.) Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Reward Landscape and Aquatic Herbicide in a minimum of 15 gals. of water per acre. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture. Use an adequate spray volume to insure good coverage.

ORNAMENTAL SEED CROPS (FLOWERS, BULBS, ETC.) EXCEPT IN THE STATE OF CALIFORNIA

For preharvest desiccation of ornamental seed crops. NOT FOR FOOD OR FIBER CROPS.

Broadcast (Air or Ground): 1.5-2 pts. Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per acre in sufficient water (minimum of 5 gals. by air; 15 gals. by ground) for desiccation and weed burndown. Repeat as needed at no less than 5-day intervals up to three applications. Do not use seed, screenings, or waste as feed or for consumption.

DIRECTIONS FOR LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Reward Landscape and Aquatic Herbicide provides fast control of broadleaf and grassy weeds in industrial, recreational, golf course, commercial, residential, and public areas.

Reward Landscape and Aquatic Herbicide is a nonselective herbicide that rapidly kills undesirable above ground weed growth in 24-36 hours. Avoid application of Reward Landscape and Aquatic Herbicide to desirable plants.

Reward Landscape and Aquatic Herbicide is a contact/desiccant herbicide; it is essential to obtain complete coverage of the target weeds to get good control. Improper application technique and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

Difficult weeds (such as perennial or deeply-rooted weeds) can often be controlled by tank mixing Reward Landscape and Aquatic Herbicide with other systemic-type herbicides. Refer to other product labels for specific application directions.

For residual weed control, tank mix Reward Landscape and Aquatic Herbicide with a preemergent herbicide labeled for the intended use site. When mixing Reward Landscape and Aquatic Herbicide with another herbicide, it is recommended to mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes.

Syngenta has not tested all possible tank mixtures with other herbicides for compatibility, efficacy or other adverse effects. Before mixing with other herbicides Syngenta recommends you first consult your state experimental station, state university or extension agent.

Grounds maintenance weed control: Reward Landscape and Aquatic Herbicide can be used as a spot or broadcast spray to control weeds in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides. Reward Landscape and Aquatic Herbicide can also be used for weed control around the edges and nonflooded portions of ponds, lakes and ditches.

Trim and Edge weed control: Reward Landscape and Aquatic Herbicide can be used to eliminate undesired grass and broadleaf plant growth in a narrow band along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches. Vegetation control with Reward Landscape and Aquatic Herbicide is limited to the spray application width. Do not exceed the labeled rate of Reward Landscape and Aquatic Herbicide as excessive rates may result in staining of concrete-based materials.

Reward Landscape and Aquatic Herbicide, since it does not translocate systemically, can be used as an edging or pruning tool when precisely applied to select areas of grass or to undesirable growth on desirable ornamental bedding plants, ground covers, etc.

Industrial weed control: Reward Landscape and Aquatic Herbicide can be used as a spot or broadcast spray either alone or in combination with other herbicides as a fast burndown or control weeds in rights-of-ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas.

Spot spray: Apply either 1-2 qts. of Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 100 gals. water, or 0.75 oz. (22 mls.) Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.

Broadcast: 1-2 pts. Reward Landscape and Aquatic Herbicide per acre in sufficient water to insure good spray coverage. Add the labeled rate of 75% or greater nonionic surfactant per 100 gals. spray mixture. Greater water volumes are necessary if the target plants are tall and/or dense. It is recommended that 60 gals. or greater water volume be used to obtain good coverage of dense weeds.

TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate golf course turf and other turf areas prior to renovation, apply 1-2 pts. of Reward Landscape and Aquatic Herbicide per acre plus the labeled rate of a 75% or greater nonionic surfactant in 20-100 gals. of water (4 teaspoons of Reward Landscape and Aquatic Herbicide plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced turf desiccation, especially in the case of thick turfgrass, water volumes should approach 100 gals. of water per acre.

For **suppression** of regrowth and quick desiccation of treated turfgrass, Reward Landscape and Aquatic Herbicide may be mixed with other systemic nonselective or systemic postemergence grassy weed herbicides. Refer to other product labels for specific application directions and restrictions.

Avoid spray contact with, or spray drift to, foliage of ornamental plants or food crops.

Do not graze livestock on treated turf or feed treated thatch to livestock.

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NONFOOD OR FEED CROP

For control of emerged annual broadleaf and grass weeds, including Little Barley*, Annual Bluegrass, Bromes including Rescuegrass, Sixweeks fescue, Henbit, Buttercup, and Carolina Geranium in established dormant bermudagrass lawns, parks, golf courses, etc.

Apply 1-2 pts. Reward Landscape and Aquatic Herbicide per acre in 20-100 gals. of spray mix by ground as a broadcast application. Add the labeled rate of a 75% or greater nonionic surfactant per 100 gals. of spray mixture.

Bermudagrass must be dormant at application. Application to actively growing bermudagrass may cause delay or permanent injury. Users in the extreme Southern areas should be attentive to the extent of dormancy at the time of application.

*For control of Little Barley, apply Reward Landscape and Aquatic Herbicide prior to the mid-boot stage.

AQUATIC USE DIRECTIONS

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling.

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game Agencies, State Water Conservation authorities, or Department of Natural Resources).

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, Reward Landscape and Aquatic Herbicide should be applied to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to **still water** (i.e. ponds, lakes, and drainage ditches) where there is minimal or no outflow to public waters.

and/or

For applications to **public waters** in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

- Corps of Engineers; or
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); or
- Applicators and/or Licensees (certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (example: PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/l. (ppm) of diquat dibromide (calculated as the cation).

Water Use Restrictions Following Applications With Reward Landscape And Aquatic Herbicide (Days)

Application Rate	Drinking	Fishing and Swimming	Livestock/ Domestic Animals Consumption	Spray Tank Applications** and Irrigation to Turf and Landscape Ornamentals	Spray Tank Applications** and Irrigation to Food Crops and Production Ornamentals
2 gals./surface acre	3 days	0	1 day	3 days	5 days
1 gal./surface acre	2 days	0	1 day	2 days	5 days
0.75 gal./surface acre	2 days	0	1 day	2 days	5 days
0.50 gal./surface acre	1 day	0	1 day	1 day	5 days
Spot Spray* (< 0.5 gal./surface acre)	1 day	0	1 day	1 day	5 days

*Add a nonionic surfactant (with at least 75% of the constituents active as a spray adjuvant) at the rate recommended by the manufacturer.

**For preparing agricultural sprays for food crops, turf or ornamentals (to prevent phytotoxicity), do not use water treated with Reward Landscape and Aquatic Herbicide before the specified time period.

When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks.

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

Floating and Marginal Weeds Including:

Water lettuce, *Pistia stratiotes*

Water hyacinth, *Eichhornia crassipes*

Duckweed, *Lemna* spp.

Salvinia spp. (including *S. molesta*)

Pennywort (*Hydrocotyle* spp.)

Frog's Bit¹, *Limnobium spongia*

Cattails, *Typha* spp.

¹Not for use in California

Reward Landscape and Aquatic Herbicide may be applied by backpack, airboat, spray handgun, helicopter, airplane, or similar application equipment that results in thorough spray coverage.

Spot Treatment: Apply Reward Landscape and Aquatic Herbicide at 2 quarts per 100 gallons spray carrier (0.5% solution) with an approved aquatic wetting agent at 0.25-1.0% v/v (1 quart to 1 gallon per 100 gallons water). For cattail control, Reward Landscape and Aquatic Herbicide should be applied prior to flowering at the maximum application rate (8 quarts of Reward Landscape and Aquatic Herbicide/100 gallons spray carrier) plus the wetting agent. Repeat treatments may be necessary for complete control.

Spray to completely wet target weeds but not to runoff. Densely packed weeds or mats may require additional applications due to incomplete spray coverage. Re-treat as needed. For best results, re-treat weed escapes within 2 weeks of the initial treatment.

Broadcast Treatment: Apply Reward Landscape and Aquatic Herbicide at the rate of 0.5-2.0 gallons per surface acre in sufficient carrier along with 16-32 oz./A of an approved wetting agent. Re-treat as necessary for densely populated weed areas. Good coverage is necessary for control of the target weeds.

For duckweed control, apply Reward Landscape and Aquatic Herbicide at 1-2 gallons/A.

Submersed Weeds Including:

- Bladderwort, *Utricularia* spp.
- Hydrilla, *Hydrilla verticillata*
- Watermilfoils (including Eurasian), *Myriophyllum* spp.
- Pondweeds¹, *Potamogeton* spp.
- Coontail, *Ceratophyllum demersum*
- Elodea, *Elodea* spp.
- Brazilian Elodea, *Egeria densa*
- Naiad, *Najas* spp.
- Algae², *Spirogyra* spp. and *Pithophora* spp.

¹Reward Landscape and Aquatic Herbicide controls *Potamogeton* species except Richardson's pondweed, *P. richardsonii*.

²Suppression only. For control of *Spirogyra* and/or *Pithophora*, use Reward Landscape and Aquatic Herbicide in a tank mix with an approved algaecide.

For severe weed or algae infestations, the use of an approved algaecide either as a pretreatment to the Reward Landscape and Aquatic Herbicide application or in a tank mix, may result in enhanced weed control.

To control submersed weeds, apply Reward Landscape and Aquatic Herbicide in water at 0.5-2.0 gallons per surface acre (per 4 foot water depth). For severe weed infestations, use the 2.0 gallon per surface acre rate. For best results, re-treat as necessary on 14-21 day intervals. The table below shows how many gallons of Reward Landscape and Aquatic Herbicide to apply per surface acre based on water depth.

	Gallons of Reward Landscape and Aquatic Herbicide per Surface Acre			
	Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0.25 gal.	0.50 gal.	0.75 gal.	1.0 gal.
2 gallon/acre rate	0.50 gal.	1.0 gal.	1.5 gals.	2.0 gals.

Note: For water depths of 2 feet or less including shorelines, do not exceed 1 gallon per surface acre.

Subsurface Applications: Where the submersed weed growth, especially Hydrilla, has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

Bottom Placement: Where submersed weeds such as Hydrilla, Bladderwort, or Coontail have reached the water surface and/or where the water is slowly moving through the weed growth, the use of an invert emulsion carrier injecting diluted Reward Landscape and Aquatic Herbicide near the bottom with weighted hoses may improve control. The addition of a copper based algaecide may improve control. If algae are present along with the submersed weeds, a pretreatment with a copper based algaecide may improve overall control.

Surface Application for Submerged Aquatic Weeds: Apply the recommended rate of Reward Landscape and Aquatic Herbicide as a spray in sufficient carrier to fully cover the target area. Applications should be made to ensure complete coverage of the weed areas. In mixed weed populations, use the high rate of application as indicated by weeds present. For dense submersed weeds or water over 2 feet deep, a surface spray is not recommended (Reward Landscape and Aquatic Herbicide should be applied subsurface in these situations.)

If posting is required by your state or tribe – consult the agency responsible for pesticide regulations for specific details.

STORAGE AND DISPOSAL

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

Pesticide Storage


Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F. For help with any spill, leak, fire, or exposure involving this material, call **1-800-888-8372**.

Pesticide Disposal

Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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

Do not reuse container. 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.

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
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P. O. Box 18300
Greensboro, North Carolina 27419-8300
www.syngenta-us.com

**SCP 1091A-L2E 0508
264067**



Landscape and Aquatic Herbicide

TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK, OR OTHER CONTAINERS, AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL.

DO NOT USE THIS PRODUCT FOR REFORMULATION.

Active Ingredient:

Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinedium dibromide]	37.3%
Other Ingredients:	62.7%
Total:	100.0%

Contains 2 lbs. diquat cation per gal. (3.73 lbs. diquat dibromide per gal.)

See additional precautionary statements in booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1091
EPA Est. 100-LA-001

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Formulated in the USA

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Greensboro, North Carolina 24719-8300
www.syngenta-us.com

SCP 1091A-L2E 0508
264067

2.5 gallons
Net Contents

KEEP OUT OF REACH OF CHILDREN. CAUTION

FIRST AID

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIANS: To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing.

Environmental Hazards: This pesticide is toxic to aquatic invertebrates. For Terrestrial Uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water. For Aquatic Uses do not apply directly to water except as specified on this label.

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, food-stuffs, or drinking water. Do not store or transport near feed or food. Store at temperatures above 32°F. For help with any spill, leak, fire, or exposure involving this material, call 1-800-888-8372.

Pesticide Disposal: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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: Do not reuse container. 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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!



BAR CODE # IS
(01) 0 07 02941 73710
LAST DIGIT IS CHECK DIGIT
(Barcode type: UCC/EAN 128)

Syngenta Crop Protection, Inc.
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call
1-800-888-8372

1. PRODUCT IDENTIFICATION

Product Name: **REWARD LANDSCAPE AND AQUATIC HERBICIDE** Product No.: A12872A
 EPA Signal Word: Caution
 Active Ingredient(%): Diquat Dibromide (37.3%) CAS No.: 85-00-7
 Chemical Name: [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinedium dibromide]
 Chemical Class: Bipyridilium (dipyridilium) contact herbicide
 EPA Registration Number(s): 100-1091 **Section(s) Revised: 2, 3, 8, 15**

2. HAZARDS IDENTIFICATION

Health and Environmental

Toxic if inhaled. Harmful if swallowed. Causes mild eye and skin irritation.

Hazardous Decomposition Products

Flammable hydrogen gas may be formed on contact with aluminum. See "Conditions to Avoid", Section 10.

Physical Properties

Appearance: Dark brown liquid

Odor: Odorless

Unusual Fire, Explosion and Reactivity Hazards

This product may form flammable and explosive hydrogen gas when in contact with aluminum.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Diquat Dibromide (37.3%)	Not Established	0.5 mg/m ³ TWA	0.5 mg/m ³ TWA (0.5 total; 0.08 respirable)	No

*** Syngenta Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
 Syngenta Hazard Category: C, S

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion:** If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Notes to Physician

To be effective, treatment for ingestion of the product must begin IMMEDIATELY. Treatment consists of binding the active ingredient, diquat, in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

Medical Condition Likely to be Aggravated by Exposure
None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method):	Not Applicable	
Flammable Limits (% in Air):	Lower: Not Applicable	Upper: Not Applicable
Autoignition Temperature:	Not Applicable	
Flammability:	Not Applicable	

Unusual Fire, Explosion and Reactivity Hazards

This product may form flammable and explosive hydrogen gas when in contact with aluminum.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

This product reacts with aluminum to produce flammable hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
Eye Contact:	Where eye contact is likely, use chemical splash goggles.
Skin Contact:	Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.
Inhalation:	A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Odor:	Odorless
Melting Point:	Not Applicable
Boiling Point:	Not Available
Specific Gravity/Density:	1.20 g/ml @ 68°F (20°C)
pH:	4 - 6
Solubility in H ₂ O	
Diquat Dibromide:	718,000 mg/l @ 68°F (20°C) and pH 7.2
Vapor Pressure	
Diquat Dibromide:	< 10(-8) mmHg @ 77°F (25°C)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Concentrate should not be stored in aluminum containers. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.
Materials to Avoid:	Strong alkalis and anionic wetting agents (e.g., alkyl and alkylaryl sulfonates). Corrosive to aluminum.
Hazardous Decomposition Products:	Flammable hydrogen gas may be formed on contact with aluminum. See "Conditions to Avoid", Section 10.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	Oral (LD50 Female Rat) :	886 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5050 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	0.62 mg/l air - 4 hours
Eye Contact:	Mildly Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

Reproductive/Developmental Effects

Diquat Dibromide: Mutagenicity: No evidence in in vivo assays.

Development Toxicity: In rabbit studies a small percentage of fetuses had minor defects at 3 and 10 mg ion/kg/d.

Chronic/Subchronic Toxicity Studies

Diquat Dibromide: Kidney weight decreases and cataracts seen in dogs at 12.5 mg ion/kg/d.

No evidence for neurotoxic effects in rats dosed up to 400 ppm ion in the diet for 13 weeks.

Carcinogenicity

Diquat Dibromide: No evidence of carcinogenicity in rat and mouse studies.

Other Toxicity Information

None

Toxicity of Other Components

Not Applicable

Target Organs

Active Ingredients

Diquat Dibromide: Eye, kidney

Inert Ingredients

Not Applicable

12. ECOLOGICAL INFORMATION

Summary of Effects

Diquat Dibromide:

Very toxic to aquatic life.

Ecotoxicity Effects

Diquat Dibromide:

Fish (Rainbow Trout) 96-hour LC50 14.83 ppm

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.77 ppm

Green Algae 4-day EC50 9.4 ppb

Bird (Mallard Duck) 14-day LD50 60.6 mg/kg

Environmental Fate

Diquat Dibromide:

The information presented here is for the active ingredient, diquat dibromide.

Stable in soil and water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA
Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat Dibromide)
Hazard Class or Division: Class 8
Identification Number: UN 1760
Packing Group: PG III

B/L Freight Classification

Herbicides, NOI

Comments

Water Transport - International
Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat Dibromide)
Hazard Class or Division: Class 8
Identification Number: UN 1760
Packing Group: PG III

Air Transport - International
Proper Shipping Name: Corrosive Liquid, N.O.S. (Diquat Dibromide)
Hazard Class or Division: Class 8
Identification Number: UN 1760
Packing Group: PG III
Packing Instructions: Passenger - 818, Cargo 820
Packaging Limitations: Inner packages over 5 liters and single packages over 60 liters cannot be shipped by cargo aircraft;
Inner packages over 2.5 liters and outer packages over 5 liters cannot be shipped by passenger aircraft.

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65

None

CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills >= 268 gal. (based on diquat [RQ = 1,000 lbs.] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 0

0 Minimal
1 Slight
2 Moderate
3 Serious
4 Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 4/11/2002

Revision Date: 2/3/2009

Replaces: 1/18/2008

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

End of MSDS

10-5588 R
Purchase and Delivery of Fungicides, Pesticides and Herbicides
Vendor Price Sheet

Completion of the Vendor Price Sheet (worksheet has formulas that will perform calculations)

- 1 Provide pricing for as many items as possible on the Vendor Price Sheet; an electronic copy must accompany your bid. The list below represents 94% of all fungicides, pesticides and herbicides purchased by Collier County over a two year period.
- 2 Provide an electronic copy of Completed Vendor Price Sheet with proposal in Excel on a DVD/CD.
- 3 Vendor Price Sheet shall serve as a representative sample of the type of items the County may purchase, and shall be used for to determine the lowest cost by items by vendor to determine the local vendor preference match. After local vendor preference match occurs, this representative list will be used to determine the vendor(s) who is capable of providing the lowest overall total price by item (which includes supplying, delivery, installation and set-up) for the greatest number of lines. The County reserves the right to award to one, or multiple vendors, who have the greatest proportion of low priced items. Once an award is made, the County may purchase any of the items listed below and any other products available from the awarded vendor's product lines. The items quoted below must remain firm for the initial term of the agreement (approximately one year from the award date by the Board of County Commissioners).
- 4 **The prices offered below shall remain firm for at least one year after approval by the Board of County**

Item	Description and Unit of Measured	Units Purchased (Over 2 Fiscal Years)	Vendor Sale Price per Unit to County
1	Rodeo 2 x 2.5 GA (no substitute)	2,480	N/B
2	SONAR723 : Sonar PR (Agency)(30 Lb)(Pail)	128	N/B
3	08-02-12 R1449 DRBL 50# (or approved equivalent)	5,268	\$ 14.08
4	15-00-15 R1849 50# (or approved equivalent)	5,187	N/B
5	POLARIS004 : Polaris Herbicide (2 x 2.5 Gal)	985	N/B
6	RODEO268 : Rodeo (2 Gal)	1,800	N/B
7	Reward 2 x 2.5 GA (no substitute)	460	\$ 255.87
8	SPEC184 : Spec Non-Ionic Drift Retardant (4X1 Gal)	2,260	N/B
9	REWARD578 : Reward (Agency) (Aquatic) (2 x 2.5 Gal)	355	N/B
10	REVOLVER 1QT	173	\$ 223.56
11	24-05-11 R1940 50# (or approved equivalent)	1,244	N/B
12	ROUNDUP214 : Roundup Quikpro (4x6.8 Lb Jug)(Ea)	399	N/B
13	CUTRINE175 : Cutrine Plus (2x2.5 Gal)	1,970	N/B
14	REVOLVE6 : Revolver (4 x 1 Qt) (Qt)	148	N/B
15	TOPCHOICE NON-AGENCY 50#	176	\$ 186.87
16	24-05-11 R5636 50# (or approved equivalent)	1,241	N/B
17	Round Up Pro 2 x 2.g GA (no substitute)	568	N/B
18	15-00-15 R1595 50# (or approved equivalent)	1,659	N/B
19	Arsenal Powerline 2 x 2.5 GA	90	N/B
20	INDUCE302 : Induce (2 x 2.5 Gal)	1,270	N/B
21	AQUATHO411 : Aquathol Super K (UPI)(25 Lb)	1,400	N/B
22	BANNER515 : Banner Maxx (2x1 Gal)	80	N/B
23	24-05-11 R1967 50# (or approved equivalent)	720	N/B
24	20-02-10 R3076 50# (or approved equivalent)	1,234	\$ 15.75
25	ROUNDUP PRO T&O 2.5G	166	N/B

10-5588 R
Purchase and Delivery of Fungicides, Pesticides and Herbicides
Vendor Price Sheet

26	Garlon 3A - 2 x 2.5GA (no substitute)	230	N/B
27	08-10-10 WT R3008 50# (or approved equivalent)	1,165	N/B
28	Aqua Neat 2 x 2.5 GA	360	N/B
29	24-05-11 R1888 50# (or approved equivalent)	660	N/B
30	19-00-10 R3009 50# (or approved equivalent)	887	N/B
31	BANNER MAXX 1G	38	\$ 242.65
32	DOMINION 2L 2.15 GAL	42	\$ 249.55
33	15-00-15 .67RONS R1225 50# Total	353	N/B
34	16-02-08 R3031 50# (or approved equivalent)	908	N/B
35	MANOR900 : Manor (4 X 2 Oz)	272	\$ 44.85
36	AQUATHO374 : Aquathol K (FL Government)(Agency)(2 x 2.5	180	N/B
37	AQUATHO407 : Aquathol K (UPI)(2x2.5 Gal)	180	N/B
38	ROUNDUP PROMAX 1.67G	180	\$ 60.50
39	DISMISS UNIT DOSER (NEW) 8 X 1PT	72	N/B
40	COMPASS803 : Compass WDG (Turf)(4 x 1 Lb)	26	N/B
41	ROUNDUP QUIKPRO 6.8#	120	\$ 65.64
42	WEEDAR424 : Weedar 64 (2x2.5 Gal)	725	N/B
43	HERITAG249 : Heritage (Agency) (6 x 1 Lb)	22	\$ 355.35
44	RESOLUTE 65WG 5#	72	N/B
45	DACONIL241 : Daconil ZN (Agency) (2 x 2.5 Gal)	120	\$ 132.25
46	DISMISS SOUTH 1PT	40	N/B
47	GARLON132 : Garlon 4 Ultra (2 x 2.5 Gal)	60	\$ 281.72
48	CELSIUS AGENCY 100Z	70	\$ 97.75
49	24-02-11 R1245 50# (or approved equivalent)	358	N/B
50	SUPREME GREEN 2.5G	280	N/B
51	ROUNDUP130 : Roundup Pro (2x2.5 Gal)	115	N/B
52	DIMENSION 2EW 2.5G	8	\$ 633.42
53	MANOR 2OZ	44	\$ 38.64
54	CUTRINE179 : Cutrine Plus G (30 Lb)	2,820	\$ 61.06
55	16-04-08 R3702 50# (or approved equivalent)	280	N/B
56	DRIVE XLR8 JUG .5 GAL	42	N/B
57	AMDRO PRO 25# (or approved equivalent)	27	\$ 206.42
58	00-00-22 R1348 50# (or approved equivalent)	376	N/B
59	MERIT 75WSP 4 X 1.6OZ	50	N/B
60	BAYLETON 50 T&O 4X5.5OZ	14	\$ 159.30
61	GARLON108 : Garlon 3A (2X2.5 Gal)	50	N/B
62	QUICKSI069 : Quicksilver (32 x 8 Oz) (Bot)	30	N/B
63	30-00-10 R1850 50# (or approved equivalent)	164	N/B
64	ASULAM437 : Asulam 4F (2x2.5 Gal) (or approved equivalent)	80	N/B

Name of Firm Submitting:

Signature and Date: