

Guaranteed Analysis

> KEEP OUT OF REACH OF CHILDREN CAUTION

Guaranteed By:

LOVELAND PRODUCTS, INC. P.O. BOX 1286 GREELEY, CO 80632-1286

F1548



Signature® and Prospect Plus are registered trademarks of Loveland Products, Inc. Duration CR® is a registered trademark of Agrium, Inc.

Net Weight 50 lbs. (22.68 kg)

Product Code: 6000310

22-0-3

with DURATION® CR

FIRST AID

If in Eyes: Hold eye 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.

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

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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.

STORAGE and DISPOSAL: STORAGE: Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal. DISPOSAL: Do not reuse container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food, or feed by storage or disposal. HANDLING: Avoid breathing fertilizer dusts. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

DIRECTIONS FOR USE: Apply as needed based on soil tests or according to recommendations in your nutrient management plan,

Lbs. N / 1000 sq. ft.	Lbs. Product / Acre	
0.5	98	Low
1.0	196	Medium
1.5	294	High

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. 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, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLEID, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT LOYELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Tests have not been carried out under all possible use conditions and Seller cannot and does not represent or warrant that the goods are compatible with all other chemicals or under all use conditions.

J3013

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC® - TOLL FREE 1-800-424-9300

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED FOR:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300

Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

CHEMICAL IDENTITY: POLYMER COATED UREA WITH POTASH

PRODUCT USE: SLOW-RELEASE NITROGEN FERTILIZER FOR TURF APPLICATION

SDS Number: 6000310-13-LPI MSDS Revisions: New Date of Issue: 10/30/13 Supersedes: New

2. HAZARDS IDENTIFICATION

KEEP OUT OF REACH OF CHILDREN -

Emergency overview: CAUTION: May cause eye irritation. May cause skin and respiratory tract irritation. Possible reproductive hazard – contains

material that may cause adverse reproductive effects.

OSHA Regulatory status

This product is con-

SHA Regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (the Hazard Communication standard)

Potential Health effects

Routes of exposure Inhalation. Ingestion. Skin absorption.

Eyes May cause eye irritation.

Skin Irritating to skin.

Inhalation Irritating to respiratory system.
Ingestion Irritating to mouth, throat, and stomach.

Target organs Skin. Eyes. Inhalation.

Signs and symptoms May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large

or frequent spills can have harmful or damaging effect on the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name and Synonyms:	Percent Hazardous by Weight:	CAS No.	TLV (Units)
Ammonia, anhydrous Urea Silica, crystalline	Trace – 0.5 49 - 50 Trace <u>Non Hazardous</u>	7664-41-7 57-13-6 14808-60-7	17 mg/m³ 10 mg/m³ (AIHA) 30 mg/m³ / % SiO ₂ + 2
Muriate of Potash	5	7447-40-7	not listed

4. FIRST AID MEASURES

If in eyes: Hold eye 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.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 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.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

NOTES TO PHYSICIAN: Treatment based on the sound judgment of the physician and the individual reactions of the patient.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog. Water spray. Carbon dioxide (CO₂). Foam.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst if exposed to extreme heat.

ACCIDENTAL RELEASE MEASURES

Personal precautions

Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

Environmental precautions Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Dike spilled material if possible.

Methods for cleaning up

Should not be released into the environment.

Large spills: Dike the spilled material where this is possible. Sweep up, raising as little dust as possible and place into containers. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS

CAUTION: Spill area will be quite slippery.

HANDLING AND STORAGE

HANDLING:

Avoid exposure - obtain special instructions before use. Do not breathe dusts or vapors. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

STORAGE:

Store in a cool, dry place away from children, feed and food products, and seed. Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. Keep out of reach of children. Long term storage at temperatures above 100°F /36°C, and long term storage of opened containers, will cause the product to degrade. Store below 100°F (36°C) and use opened containers within 30 days. Always use oldest stock first.

EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

U.S. ACGIH. BEIs. Biological Exposure Indices

Components	Type	Value
Ammonia	OSHA PELs	35 mg/m ³
Particluates, not otherwise classified	OSHA PELs	15 mg/m³ (Total dust)
Silica, crystalline	OSHA PELs	30 mg/m ³ / % SiO ₂ + 2 (Total dust)

EXPOSURE GUIDELINES ENGINEERING CONTROLS Follow standard monitoring procedures.

PERSONAL PROTECTION EQUIPMENT

Provide adequate general and local exhaust ventilation. Provide eyewash station.

EYE / FACE PROTECTION:

Safety glasses are recommended.

SKIN PROTECTION:

Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment

to remove contaminants. The use of neoprene gloves is recommended.

RESPIRATORY PROTECTION:

In case of inadequate ventilation or risk of inhalation of dusts, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear air supplied respiratory protection. Wear air supplied respiratory protection if exposure concentrations are unknown.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Multi-colored granules.

PHYSICAL STATE: Solid.

FORM: Solid.

COLOR: Multi-colored.

ODOR: Dusty

ODOR THRESHOLD: 0.1 ppm

pH: Not applicable

VAPOR PRESSURE: Not applicable VAPOR DENSITY (Air = 1): Not applicable

BOILING POINT: Not applicable **MELTING POINT:** No Data

SOLUBILITY: Negligible

SPECIFIC GRAVITY (Water = 1): 0.64 - 1.21 g/mi - BULK DENSITY: 40 - 70 lbs/ft3

FLASHPOINT: Not applicable

FLAMMABLE LIMITS (LFL & UFL): Lower Flammability Limit: Not applicable; Upper Flammability Limit: Not applicable

AUTO-IGNITION TEMPERATURE: Not established

PARTITION COEFFICIENT (n-octanol/water): < -1.73 (Urea)

These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable CONDITIONS TO AVOID: None known. INCOMPATIBILE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Urea may decompose to release cyanuric acid, ammonia, HCN, oxides of carbon (CO2 and CO), oxides of

POSSIBILITY OF HAZARDOUS REACTIONS: None known. Will not polymerize.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA		
Components	Species	Test Results
Ammonia, anhydrous (CAS: 7664-41-7)		
Acute		
Oral		
LD ₅₀	Rat	350 mg/kg
Inhalation		
LC ₅₀	Rat	4,230 – 19, 960 mg/l
Urea (CAS: 57-13-6)		
Acute		
Dermal		
LD_{50}	Rat	Not established
Oral		
LD ₅₀	Rat	14,300 mg/kg
Castor Oil (CAS: 8001-79-4)		7 7 7
Acute		
Intramuscular		
TD_Lo	Rat	1 mL/kg
Oral		•
TD _{Lo}	Rat	4 mL/kg
Muriate of Potash (CAS: 7447-40-7)		5 Y
Acute		
Oral		
LD ₅₀	Rat	1,500 – 2,600 mg/kg
TOXICOLOGICAL INFORMATION	Occupational exposure to	o the substance or mixture may cause adverse effects.
ACUTE EFFECTS		on or burns to eyes, skin, gastrointestinal tract, and respiratory
	system.	and to open own, guestion too and a dot, and too phatory
CHRONIC EFFECTS	Prolonged exposure may	cause chronic effects
CARCINOGENICITY	Not classified.	
MUTAGENICITY	Not classified.	
REPRODUCTIVE EFFECTS	Possible reproductive ha	zard. Can cause adverse reproductive effects – such as birth defects.
	miscarriages, or infertility	
TERATOGENICITY	Avoid contact during pred	
SYMPTOMS AND TARGET ORGANS		e irritation with associated redness, swelling, tears and pain. May
		and kidney based on animal testing.
FURTHER INFORMATION	Symptoms may be delay	

12. ECOLOGICAL INFORMATION

Ecotoxicological Data Components		Species	Test Results
Ammonia, anhydrous (CA	S: 7664-41-7)		
Aquatic			
Crustacea	EC ₅₀	Daphnia magna	2.94 mg/L, 48 hours
Fish	NOEC	Various	21.4 - 279 mg/L (varies due to species, test type)
Urea (CAS: 57-13-6)			2 11 2 10 mg/2 (valies due to species, test type)
Aquatic			
Fish	LC50	Tilapia mossambica	22,500 mg/l, 96 hours
Muriate of Potash (CAS: 7	7447-40-7)	Thapia Thoodambioa	22,000 mg/i, 50 modis
Aquatic	,		
Crustacea	EC ₅₀	Daphnia magna	337 - 825 mg/l, 48 hours
Fish	LC ₅₀	Lepomis machrochirus (Blue Gill)	2,010 mg/l, 96 hours
			to the second se

ECOTOXICITY

ENVIRONMENTAL EFFECTS PERSISTENCE AND DEGRADABILITY **MOBILITY IN ENVIRONMENTAL MEDIA** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. The product is not readily biodegradable. This product is not readily soluble in water.

SAFETY DATA SHEET

SIGNATURE® 22-0-3 WITH DURATION® CR

13. DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS
WASTE FROM RESIDUES / UNUSED PRODUCTS

Do not dispose of in drains or water courses.

This material must be disposed of according to local, state, provincial and federal requirements and procedures.

14. TRANSPORT INFORMATION

UN No.: NOT APPLICABLE

UN PROPER SHIPPING NAME: NOT APPLICABLE TRANSPORT HAZARD CLASS: NOT APPLICABLE

PACKING GROUP: NOT APPLICABLE

ENVIRONMENTAL HAZARDS: NOT DETERMINED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 68140, SUB 5; CLASS 50)

15. REGULATORY INFORMATION



NFPA & HMIS Hazard Ratings:

NFPA

HMIS

1 Health0 Flammability0 Instability

0 Least1 Slight2 Moderate3 High

1 Health
0 Flammability
0 Reactivity
B PPE

High Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate _ Delayed _ Fire _____ Reactive ___

Sudden Release of Pressure

N

Reportable Quantity (RQ) under U.S. CERCLA: Ammonia, anhydrous (CAS: 7664-41-7) 100 lbs.

SARA, Title III, Section 313: Ammonia, anhydrous (CAS: 7664-41-7) 100 lbs.

RCRA Waste Code: Not listed.
CA Proposition 65: Not applicable.

16. OTHER INFORMATION

SDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.





Lebanon TREFLAN* 5G is a selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Omamentals

- Ground Covers

- Landscape Omamentals

- Nursery Slock

- Omamental Bubs

- Noncrepland

- Noncrepland

- Noncrepland

- Noncrepland

ACTIVE INGREDIENT: *trifluralinOTHER INGREDIENTS: 5.0% 95.0% TOTAL .

KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to back panel of bag for precautionary information and Directions for Use including STORAGE AND DISPOSAL In case of an emergency endangering life or property involving this product, call Chemtrec at 1-800-424-9300.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

PERSONAL PROTECTIVE EQUIPMENT (PPE):

USER SAFETY RECOMMENDATIONS
Users should. *Wash hands befure eating, diridin
*Remove clothing immediately if pe
*Remove PPE immediately after his

ENVIRONMENTAL HAZARDS tebrates including shrimp and cyster. Do not apply on a n pply directly to water, or to areas where surface water is p

MANUFACTURED BY

LEBANON SEABOARD CORPORATION
1600 EAST CUMBERLAND STREET
LEBANON, PA 17042

www.LebanonTurf.com







Lebanon TREFLAN* 5G is a selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Ornamentals
- Landscape Ornamentals
- · Nursery Stock
- Ground Covers
- Established Flowers
- Ornamental Bulbs
- Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards in Ornamental Landscaping
- Noncropland

ACTIVE INGREDIENT:

*trifluralin	5.0%
OTHER INGREDIENTS:	95.0%
TOTAL	
Contains 2 pounds active ingredient per 40 pound bag.	(L) (D)

EPA Reg. No. 961-405

*Trademark of Dow AgroSciences LLC.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789.

EPA Est. 961-PA-01:961-IL-01 Superscript used is first letter of lot number.

KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to back panel of bag for precautionary information and Directions for Use including STORAGE AND DISPOSAL. In case of an emergency endangering life or property involving this product, call Chemtrec at 1-800-424-9300.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

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.

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

- IF ON SKIN: 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: . 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. For Emergency Medical Information call (688) 208-1368.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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. Then wash thoroughly and put on clean clothing.
 Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

MANUFACTURED BY

LEBANON SEABOARD CORPORATION

1600 EAST CUMBERLAND STREET LEBANON, PA 17042 www.LebanonTurf.com



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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

NOT FOR USE ON PLANTS BEING GROWN FOR SALE OR OTHER COMMERCIAL USE, OR FOR COMMERCIAL SEED PRODUCTION OR FOR RESEARCH PURPOSES. FOR USE ON PLANTS INTENDED FOR AESTHETIC PURPOSES OR CLIMATIC MODIFICATIONS AND BEING GROWN IN INTERIOR PLANTSCAPES, ORNAMENTAL GARDENS OR PARKS, OR ON GOLF COURSES OR LAWNS AND GROUNDS. 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

ENTRY RESTRICTIONS

Do not enter or allow others to enter the treated area until dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after the watering-in.

GENERAL INFORMATION

This product is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards in ornamental landscaping only, and noncropland. Apply before or after planting but prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with weed population, potting media or soil conditions, temperature, watering regime and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat applications should not be made sooner than 60 days after a previous application. Do not apply over 240 lbs. per acre total of this product within a 12-month period.

GENERAL USE PRECAUTIONS

This product does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation, is required to activate this product. Optimum weed control is obtained when this product is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible, this product may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate this product within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of the granules from the target area Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application.

WEEDS CONTROLLED WHEN APPLIED AT 80 LBS./ACRE (1.8 Lbs./1,000 Sq. Ft.)

ANNUAL GRASSES Crabgrass Fescue, rattail

Kochia

Goosegrass Junglerice Lovegrass Oat. Wild Barnyardgrass (watergrass) Cupgrass, Southwestern Bluegrass, annual ANNUAL BROADLEAF WEEDS

Knotweed, prostrate Lambsquarters, commor In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 80 lbs./acre (1.8 lbs./1000 sq. ft.)

Carpetweed Johnsongrass (from seed) Panicum, Texas Pusley, Florida Shattercane

APPLICATION DIRECTIONS

Apply this product using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

APPLICATION TECHNIQUES

- When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as whirtybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, hard to treat areas. Carefully measure the amount of product needed to avoid over-application

APPROVED USES

Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Established Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees, Non-bearing Vineyards in Ornamental Landscaping Only, and Non-

This product is recommended as a preeemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards in ornamental landscaping only, and non-cropland. Apply before or after planting but prior to germination of target weeds, or immediately after cultivation. Refer to the "General Information" section of this label for general use precautions and information on application, application rates and weeds controlled

SPECIAL USE PRECAUTIONS

To avoid possible injury, do not apply this product to:

· Unrooted liners or cuttings that have been planted in pots for the first time

Goosefoot, nettleleaf

· Pots less than four inches wide

Barley, hare

Chickweed, common

· Ground covers until they are established and well rooted

Do not apply to newly transplanted ornamentals, nursery stock, ground covers, flowers and non-bearing fruit and nut crops and non-bearing vineyards in ornamental landscaping until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Do not make preplant applications of this product to areas where gladioli corms are less than one inch in diameter will be planted or injury may occur.

Do not apply this product in greenhouse or other enclosed structures.

Repeat applications should not be made sooner than 60 days after a previous application of this product. Do not apply over 240 lbs. per acre total of this product within a 12 month period.

Prior to using this product on a large number of plants, the treated plants should be observed for signs of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. THE USER ASSUMES RESPONSIBILITY FOR ANY PLANT DAMAGE OR OTHER LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ON PLANT SPECIES NOT RECOMMENDED ON THIS LABEL. This product may be used on the following established plant species when container grown or field grown:

Balsam Fir White Fir White FIF Albus Flowering Maple Luteus Flowering Maple Roseus Flowering Maple Tangerine Flowering Maple Vesuvius Red-Flowering Maple Flame Maple Norway Maple
Red Maple
Red Sunset Maple Silver Maple Sugar Maple Queen Palm River Birch Paper Birch

uropean White Birch Bottle Tree Black Olive Chinese Chestnut Carob Redbud Filicoides-Fernspray Cypress Gracilis-Slender Hinoki Cypress Swara False Cypress Squarrosa-Moss Cypress Palm (Chamaedorea cataractarum) Palm (Chamaedorea costaricana) Parlor Palm Cloud Nine Dogwood Flowering Dogwood

Kousa Dogwood Green Hawthorn Carrot Wood Arizona Cypress Russian Olive Redgum Eucalyptus Mealy Eucalyptus Silver Dollar Eucalyptus Coolibah Tree Red Ironbark Eucalyptus Ficus Mini Fucus White Ash Shamel Ash Ginko-Maidenhair Tree

TREES Honey Locust Shademaster Honey Locus Toyon Florida Anise-Tree Eastern Red Cedar Japanese Larch American Sweet Gum Tuliptree Southern Magnolia Crabapple White Mulberry Blackgum Norway Spruce

Pendula-Weeping Norway Spruce Repens-Spreading Norway Spruce
Dwarf Alberta Spruce
White Spruce
Dwarf Globe Blue Spruce Glauca-Colorado Blue Spruce Hoopsii-Hoop's Blue Spruce Koster-Koster Blue Spruce Bristlecone Pine Canary Island Pine Shore Pine, Beach Pine Bosnian Pine

Pumilio-Shrubby Swiss Mountain Pine

Austrian Black Pine

Monterey Pine Red Pine
White Pine
Columnar Scotch Pine Scotch Pine Loblolly Pine Japanese Black Pine London Planetree American Sycamore California Sycamore Podocarpus Cottonwood Chilean Mesquite Yoshino Flowering Chem

Douglasfii

Scarlet Oak Bear Oak Pin Oak Willow Oak Red Oak Live Oak Black Locus Willow Giant Seguoia Mahogany Yellow Tab Baldcvpress Eastern Hemlock Chinese Elm

Mexican Fan Palm

Signalgrass Sprangletop, Mexican

Thistle, Russian

Purslane, commor

Panicum, fall Sandbur, field

Piaweed

Nettle, stinging

Edward Goucher Abelia
Glossy Abelia
Abyssinica Acacia
Prostrate Acacia
Shoestring Acacia
Copper Leaf
Amur Maple
Coral Bark Japanese Maple
Dwarf Japanese Maple
Century Plant
False Spirea
Japanese Painted Fern
Coyotebush
William Penn Barberry
Mentor Barberry
Atropurea-Redleaf Japanese Barberry
Aurea-Golden Japanese Barberry
Crimson Pygmy Barberry
Rose Glow Barberry
Barbara Karst
California Gold
Pink Pixie
Scarlet O'Hara
Temple Fire
Texas Dawn

Japanese Boxwood Korean Boxwood Common Boxwood Lemon Bottlebrush Weeping Bottlebrush Spring Torn Socoth Heather Japanese Camellia Sasarqua Camellia Sasarqua Camellia Feathery Cassia Wild Liliac Plum Yew Snow-in-Summer Kosteri Cypress Nana-Dwarf Hinoki Cypress Torufosa Cypress Torufosa Cypress Areca Palm Summersweet Japanese Cleyera Sibirica-Siberian Dogwood Balleyi Red Osier Dogwood Flaviramea-Yellowtwig Dogwood Royal Purple Smoke Tree	
Eichholz Smoke Tree	
and the second s	
Largeleaf Iceplant Dwarf Plumbago	

Praecox-Early Cotoneaster
Cranberry Cotoneaster
Pyrenees Cotoneaster
Bearberry Cotoneaster
Himalayan Cotoneaster
Rock Cotoneaster
Zabel Cotoneaster
Sago Palm
Hollandia-Warminster Broom
Lena-Scotch Broom
Fragrant Daphne
Deutzia
Hopseed Bush
Fruitland Silver Berry
Purple Bell Heather
Mediterranean Pink Heather
Cornish Heather
Winged Euonymus
Canadale Gold Euonymus
Emerald'n Gold Euonymus
Sunspot Euonymus
Wintercreeper Euonymus
Silver King-Euonymus
Variegated Evergreen Euonymu
Spreading Euonymus
Descampsia
Trailing Rosea Iceplant

ORNAMENTAL SHRU	BS
Pineapple Guava	Sero
Forsythia	Trum
August Beauty Gardenia	Leat
Gardenia	Cree
Radican Gardenia	Wax
Salal/Lemon Leaf	Com
Carolina Jessamine	Harb
Woadwaxen	Heav
Ross Estey-Hibiscus	Nana
Rose-of-Sharon- Heart	Nana
Rose-of-Sharon- Red Bird	Woo
Rose-of-Sharon- Woodbridge	Hard
Holly	Olea
Mystery Gardenia	Ruby
Henry Garnet Holly Leaf Sweetspire	Fortu
lxora	Mock
Juniper	Pigm
Mountain Laurel	Frase
Crape Myrtle	Japai
Lantana	Mour
Coast Leucothoe	Snow
Drooping Leucothoe	Temp
Privet	Valley
Chinese Fountain Palm	Valley
Flowering Woodbine	Fores
GROUND COVERS	
English Ivy	White

	Serouna wooddine	Mugo-Mugho Pine
	Trumpet Honeysuckle	Green Pittosporum
	Leather Leaf Mahonia	Japanese Pittosporum
	Creeping Mahonia	Wheeler's Dwarf Pittosporum
	Wax Myrtle	Blue Cape Plumbago
	Compacta-Dwarf Heavenly Bamboo	Plumbago
	Harbour Dwarf-Heavenly Bamboo	Yewpine
	Heavenly Bamboo	Tassel Fern
	Nana Compacta-Heavenly Bamboo	Cinquefoil
	Nana Purpurea-Heavenly Bamboo	Carolina Laurel Cherry
	Woods Dwarf Heavenly Bamboo	Dwarf Pink Flowering Almond
	Hardy Red Oleander	Pyracantha
	Oleander	Charisma-Monruce Rhaphiolepis
	Ruby Lace Oleander	Enchantress-Moness Rhaphiolepis
	Fortunes Osmanthus	India Hawthorn
	Mockorange	Springtime-Monme Rhaphiolepis
	Pigmy Date Palm	Roundleaf Rhaphiolepis
	Fraser's Photinia	Azalea/Rhododendron
	Japanese Andromeda	Africa Sumac
	Mountain Fire Lily-of-the-Valley	Ramanas Rose
	Snowdrift Lily-of-the-Valley	Rosemary
	Templebells Lily-of-the-Valley	Japanese Skimmia
	Valley Rose Lily-of-the-Valley	Reeve's Skimmia
	Valley Valentine Lily-of-the-Valley	Anthony Waterer Spiraea
	Forest Flame Lily-of-the-Valley	Dolchia Spiraea
	and any or any rame,	Dolona Opraca
•	Minite Libe Total	0
	White Lily Turf	Creeping Wirevine
	Big Blue Lily Turf	Myoporum
	Lilac Beauty Lily Turf	Dwarf Mondo Grass
	Magestic Lily Turf	Mondo Grass
	Silvery Sunproof Lily Turf	Trailing African Daisy
	Variegated Lirope Lily Turf	Japanese Spurge
	Green/Creeping Lily Turf	Fountain Grass
	Eulalia Grass	

Japanese Alpine Spiraea
Shirobana Spiraea
Bridal Wreath
Chinese Lilac
Common Lilac
Upright Japanese Yew
Anglojap Yew
Cape Honeysuckle
Ternstroemia gymnanthera
American Arborvitae
Emerald Arborvitae
Globosa-Globe Arborvitae
Little Giant-Dwarf Arborvitae
Nigra-Dark American Arborvitae
Pyramidalis-Pyramid Arborvitae
Rheingold Arborvitae
Techny Arborvitae
Aureus Nana-Dwarf Golden Arborvitae
Minima Glauca-Dwarf Arborvitae
Christmas Palm
Virburnum
Weigela
Xylosma
Yucca
Ribbon Grass
Stonecrop (Sedurn)
Commenda

WOOIY FAITOW	
Lily-of-the-Nile	
Beechgrass	
Cape Weed	
Thrift	
Asparagus Fern	
Bellflower	
Variegated Carex	
Yarrow	
Floss Flower	
Almos Filowel	

Alyssum

Snapdragon

African Daisy

Dusty Miller

Aster (perennial)

OLOMII ACIOII	
Pampas Grass	
Cotoneaster	
White Iceplant	
Cornflower	
Velvet Centaurea	
Sweet Sultan	
Chrysanthemum	
Morningglory	
Coreopsis	
0	

Dahlia

Coreopsis

Crown Vetch

Golden Hakonechloa Algerian ivy		
Dianthus Marigold, Cape Sanow on the Mountain Gaillardia Geum Gladiolus Baby's Breath		

Iceplant

Blue Fescue

Strawberry, Beach Gazania

English Ivy	
Daylilly	
Rupturewort	
Albo-Marginata Hosta	
Aaronsbeard	
St. Johnswort	
Angelwing Jasmine	
Trailing Iceplant	
ESTABLISHED F	
Sunflower	

Impatiens Ixora

Sweet Pea

Statice

WERS
Sweet Alyssum
Lupine
Stock
Four O'Clock
Forget-Me-Not
Nicotiana
Poppy, California
LBS

> Petunia Phlox Portulaca Rose Blackeyed Susan Golden Glow Salvia

Lamb's Ears Stoke's Aster Marigold Nasturtium Vinca 7innia

Germander

Verbena

Periwinkle

Asaian Jasmine

ORNAMENTAL BU

This product may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. This product may also be applied following bulb emergence. For fall planted bulbs, apply this product again in later winter or early spring to weed-free soil surfaces.

NON-BEARING FRUIT AND NUT TREES AND NON-BEARING VINEYARDS IN ORNAMENTAL LANDSCAPING ONLY*

Almond					AMPIAIVE FUIFDOOL
Almond	Boysenberry	Fig	Kiwi	Orange	Pomegranate
Apple	Cherry, sour	Filbert	Lemon	Peach	Prune
Apricot	Cherry, sweet	Gooseberry			
Avocado			Loganberry	Pear	Raspberry
	Currant	Grape, American	Macadamia Nut	Pecan	Walnut, black
Blackberry	Dewberry	Grape, European	Nectarine	Pistachio	Walnut, English
Blueberry	Elderberry	Granefruit	Olive	Dive	walliut, Eligiisii

*Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants which will not bear fruit for at least one year after treatment.

NON-CROPLAND AREAS

This product is recommended as a preemergence herbicide for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guard rails, sign posts and delineators. Apply anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides. Refer to the "General Information" section prior to using this product on non-cropland.

STORAGE AND DISPOSAL

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

STORAGE: Keep in original container in a cool, dry area, away from extreme heat and direct sunlight. Do not store near food, feed, seeds or other pesticides.

Store in original container only. In case of leak or spill, contain material and dispose of as waste.

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

WARRANTY DISCLAIMER

The Manufacturer warrants that this product conforms to the chemical description of the label and is reasonably fit for the purpose stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. THE MANUFACTURER MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the Manufacturer or the Seller. All such risks shall be assumed by Buyer.

WARRANTY

The Manufacturer warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions not reasonably foreseeable to Manufacturer, and Buyer assumes the risk of any such use.

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