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**CHEMTREC:** (800) 424-9300

**DATE ISSUED:** 6/18/07  
**SUPERSEDES:** 10/10/06

### I. PRODUCT IDENTIFICATION

**PRODUCT NAME:** LESCO Stonewall™ Pre-emergence Herbicide plus Fertilizer  
 (0.20%, 0.29%, 0.43%, 0.68%, 2.0%)

**Chemical Family:** Dinitroaniline Herbicide

**Chemical Name/Synonyms:** N3,N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine

### II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Prodiamine	0.20% – 2.0%	29091-21-2	Not Established

Formulated with one or more of the following ingredients. Check specific product label.

Urea	0 – 98	57-13-6	10 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)
Potassium Chloride	0 – 95	7447-40-7	10 mg/M <sup>3</sup>
Potassium Sulfate	0 – 95	7778-80-5	10 mg/M <sup>3</sup>
Monoammonium Phosphate	0 – 95	7722-76-1	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> TLV
Diammonium Phosphate	0 – 95	7783-28-0	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)
Ammonium Sulfate	0 – 95	7783-20-2	15 mg/M <sup>3</sup> (dust)
Calcium Carbonate	0 – 95	1317-65-3	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)
Sulfur	0 – 20	7704-34-9	5 ppm (SO <sub>2</sub> )
Iron Oxide	0 – 10	1309-37-1	15 mg/M <sup>3</sup> (dust)
Iron Sulfate	0 – 10	7720-78-7	15 mg/M <sup>3</sup> (dust)
Manganese Oxide	0 – 10	1317-35-7	15 mg/M <sup>3</sup> (dust)
Magnesium Sulfate	0 – 10	7487-88-9	15 mg/M <sup>3</sup> (dust)
Urea Formaldehyde	0 – 10	9011-05-6	Not Established
Sulfate of Potash-Magnesia	0 – 10	14977-37-8	Not Established
Magnesium Carbonate	0 – 10	39409-82-0	Not Established
Biosolids	0 – 10	Not Established	Not Established
Kaolin Clay	0 – 10	Not Established	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)
Sodium Sulfite	0 – <1	Not Established	Not Established

TLV of all chemicals and mixtures is 15 mg/M<sup>3</sup>; TWA is 10 mg/M<sup>3</sup>; Respirable dust TLV of 5mg/M<sup>3</sup>, unless otherwise indicated

### III. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

**POTENTIAL HEALTH EFFECTS:** May cause mild irritation to skin and eyes. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.

**EYE:** May cause mild irritation

**SKIN:** Prolonged or frequently repeated skin contact may cause allergic reactions to some individuals.

**INHALATION:** Dust may be irritating to nose, respiratory tract and throat

**INGESTION:** Ingestion may result in rapid onset of abdominal pain, nausea, diarrhea, blurred vision, sweating, salivation, muscle twitching, and tremors.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing respiratory, skin, or eye conditions

**POTENTIAL ENVIRONMENTAL HAZARDS:** This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

### IV. FIRST AID MEASURES

**EYES:** Flush with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**SKIN:** Remove contaminated clothing. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists.

**INHALATION:** If symptoms develop, remove person from source of exposure to fresh air. If breathing is difficult, administer oxygen if available. Get medical attention if irritation persists.

**INGESTION:** Give 1 or 2 glasses of water. Induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Seek medical attention.

**NOTES TO MEDICAL DOCTOR:** Treat symptomatically

### V. FIRE FIGHTING MEASURES

**Flash Point (Method Used):** Not Applicable

**Lower Explosion Limits:** Not Applicable

**NFPA/HMIS Rating:** Health: 2

**EXTINGUISHING MEDIA:**  Foam  
 Water Spray

**Auto Ignition Temperature:** Not Applicable

**Upper Explosion Limits:** Not Applicable

Fire: 1                      Reactivity: 0

Alcohol Foam                       Dry Chemical  
 Use media suitable for surrounding fire                       CO<sub>2</sub>

**EXPLOSION HAZARDS:** Dispersion of fine dust in the air may form an explosive mixture.

**FIRE FIGHTING PROCEDURES:** Wear NIOSH approved positive pressure, self-contained breathing apparatus. Do not breathe fumes. Remove from area of fire at first opportunity. Prevent water runoff from entering drains, sewers or water sources. Fertilizer will become slippery when wet Guard against falls.

**HAZARDOUS COMBUSTION PRODUCTS:** If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde. Under fire conditions, urea may decompose to cyanuric acid, biuret or ammonia. Thermal decomposition product may also include, but are not limited to, oxides of nitrogen, hydrogen fluoride and carbon monoxide

### VI. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** If material is spilled, sweep up, keeping dust to a minimum and store for re-use. Contaminated product and/or environmental media should be recovered and disposed of properly. Avoid breathing the dust.

### VII. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Read product label before handling. Use only as directed on the label. Do not contaminate water, food, or feed by storage or disposal. Store in original container away from other fertilizer, feed, or food stuffs and separated from other pesticides and way from drains, sewers, and water sources. Do not contaminate water source from disposal of equipment washwater. Do not eat, drink, or smoke while handling this product.

**OTHER PRECAUTIONS:** Keep out of reach of children. Avoid contact with eyes, skin and clothing. Wash thoroughly after using.

### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust ventilation recommended. Applicators should stand upwind when handling.

**PERSONAL PROTECTION EQUIPMENT:**

**EYES AND FACE:** Safety glasses with side shields, goggles, or face shield are required  
**RESPIRATORY:** NIOSH/MSHA approved respiratory protection  
**GLOVES:** PVC gloves recommended  
**PROTECTIVE CLOTHING:** Long-sleeved shirt and long pants, shoes plus socks  
**WORK HYGENIC PRACTICES:** Practice good care and good safety precautions when handling this product.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT:</b> Not Applicable	<b>SPECIFIC GRAVITY:</b> Not Applicable
<b>MELTING POINT:</b> Not Applicable	<b>EVAPORATION RATE:</b> Not Applicable
<b>VAPOR DENSITY (air = 1):</b> Not Applicable	<b>VAPOR PRESSURE:</b> Not Applicable
<b>ODOR:</b> Bland odor	<b>SOLUBILITY IN WATER:</b> Partially soluble
<b>APPEARANCE:</b> Multi-colored granules	<b>PERCENT VOLATILE:</b> Not Applicable
<b>pH:</b> Not Determined	<b>BULK DENSITY (lbs./cu ft):</b> 56 - 60

### X. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Oxidizing agents; thermal, mechanical and electrical ignition sources  
**STABILITY:** Stable  
**POLYMERIZATION:** Will not occur  
**INCOMPATIBLE MATERIALS:** Strong acids, alkalis  
**HAZARDOUS DECOMPOSITION PRODUCTS:** If heated to decomposition, may give off ammonia and formaldehyde as well as oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus, nitrogen, carbon, and chlorine. Urea can yield cyanuric acid or biuret upon heating.

### XI. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** (Rabbit): Mildly irritating (AI)  
**SKIN EFFECTS:** (Rabbit): Non-irritating (AI)  
**DERMAL LC<sub>50</sub>:** (Rat): >2000 mg/kg body weight (AI)  
**ORAL LD<sub>50</sub>:** (Rat): >5000 mg/kg body weight (AI)  
**INHALATION LC<sub>50</sub>:** (Rat): >1.8 mg/l air – 4 hours (AI)  
**SENSITIZATION:** (Guinea Pig): Sensitizing (AI)  
**ACUTE EFFECTS FROM OVEREXPOSURE:** Eye irritation, possible skin sensitization  
**CHRONIC EFFECTS FROM OVEREXPOSURE:** Prodiamine: (AI)  
Reproductive Hazard Potential: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1 g/kg/day.  
Chronic/Subchronic Toxicity Studies: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains  
**CARCINOGENICITY:** Prodiamine: (AI)  
Potential: Benign thyroid tumors (rat). None observed (mouse)  
**IARC:** Sodium Sulfite, Group 3  
**NTP:** Not Listed  
**OSHA:** Not Listed  
**OTHER:** Not Listed

### XII. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available for the formulation. The information presented here is for the active ingredient, Prodiamine: (AI)  
 Stable in sterile water, in the dark at pH 5,7 and 9, but degrades rapidly in the light, in both water (t1/2 = 0.33 hr @ pH 5.5) and soil (t1/2 – 50 hr). Degradation in soil, in the dark is variable under aerobic conditions (t1/2 ~ 57 – 218 d), more rapid under anaerobic conditions (t1/2 ~ 30 d). Immobile in various soils (Koc >9000). Bioaccumulation is high (BCF = 1300X, whole fish).  
**ECOTOXICOLOGICAL INFORMATION:** No data

### XIII. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:**

**Product:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container:** Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill, or at an incineration facility, or, if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

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**XIV. TRANSPORTATION INFORMATION:**

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**DOT Transportation:** Not Regulated  
**Proper Shipping Name:** Not Applicable  
**Hazard Class:** Not Applicable  
**U.S. Surface Freight Class:** Herbicides, NOI  
**Reportable Quantity (RQ):** Not Applicable

**ID NO.:** Not Applicable  
**Marine Pollution #1:** Not Applicable  
**HM 181 Shipping Name:** Not Regulated

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**XV. REGULATORY INFORMATION – UNITED STATES**

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**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

Y **Immediate (Acute Health)**

**SEC 302:** Not Applicable

N **Delayed (Chronic Health)**

**SEC 304:** Not Applicable

N **Fire**

**SEC 313:** Not Applicable

N **Sudden Release of Pressure**

**CERCLA RQ:** Iron Sulfate (7720-78-7) 1,000

N **Reactivity**

**CAA RQ:** Not Applicable

**EPA Registration No.:** 10404-88 (0.20%); 10404-89 (0.43%); 10404-90 (0.68%); 10404-91 (2.0%); 60063-28-10404 (0.29%)

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