

1301 East 9th Street, Suite 1300, Cleveland, OH 44114-1849 EMERGENCY PHONE: LESCO: (800) 321-5325 CHEMTREC: (800) 424-9300 **DATE ISSUED:** 12/8/09 **SUPERSEDES:** 11/24/09

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Stonewall® Pre-emergence Herbicide plus Fertilizer; LESCO Stonewall® (0.20%, 0.29%, 0.43%, 0.68%, 2.0%) Plus Fertilizer; LESCO Barricade® (0.20%, 0.29%, 0.43%, 0.68%, 2.0%) Plus Fertilizer; LESCO Barricade® 0.28% Plus Fertilizer; LESCO Barricade® 0.38% Plus Fertilizer
Chemical Family: Dinitroaniline Herbicide

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

| II. | 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. | | | t label. | |
| | Urea | 0 – 98 | 57-13-6 | 10 mg/M ³ (dust) | |
| | | | | 5 mg/M ³ (resp) | |
| | Potassium Chloride | 0 – 95 | 7447-40-7 | 10 mg/M ³ | |
| | Potassium Sulfate | 0 – 95 | 7778-80-5 | 10 mg/M ³ | |
| | Monoammonium Phosphate | 0 – 95 | 7722-76-1 | 15 mg/M ³ (dust) | |
| | | | | 5 mg/M ³ TLV | |
| | Diammonium Phosphate | 0 – 95 | 7783-28-0 | 15 mg/M ³ (dust) | |
| | | | | 5 mg/M ³ (resp) | |
| | Ammonium Sulfate | 0 – 95 | 7783-20-2 | 15 mg/M ³ (dust) | |
| | Calcium Carbonate | 0 – 95 | 1317-65-3 | 15 mg/M ³ (dust) | |
| | | | | 5 mg/M ³ (resp) | |
| | Sulfur | 0 - 20 | 7704-34-9 | 5 ppm (SO ₂) | |
| | Iron Oxide | 0 – 10 | 1309-37-1 | 15 mg/M [°] (dust) | |
| | Iron Sulfate | 0 – 10 | 7720-78-7 | 15 mg/M ³ (dust) | |
| | Manganese Oxide | 0 – 10 | 1317-35-7 | 15 mg/M [°] (dust) | |
| | Magnesium Sulfate | 0 – 10 | 7487-88-9 | 15 mg/M ³ (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 ³ (dust) 5 mg/M ³ (resp) | |
| | Sodium Sulfite | 0-<1 | Not Established | Not Established | |

TLV of all chemicals and mixtures is 15 mg/M³; TWA is 10 mg/M³; Respirable dust TLV of 5mg/M³, 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 Auto Ignition Temperature: Not Applicable Lower Explosion Limits: Not Applicable Upper Explosion Limits: Not Applicable NFPA/HMIS Rating: Health: 2 Fire: 1 Reactivity: 0 **EXTINGUISHING MEDIA:** Alcohol Foam х Foam х Dry Chemical х Water Spray х Use media suitable for х CO_2 surrounding fire

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

BOILING POINT: Not Applicable MELTING POINT: Not Applicable VAPOR DENSITY (air = 1): Not Applicable ODOR: Bland odor APPEARANCE: Multi-colored granules pH: Not Determined

SPECIFIC GRAVITY: Not Applicable EVAPORATION RATE: Not Applicable VAPOR PRESSURE: Not Applicable SOLUBILITY IN WATER: Partially soluble PERCENT VOLATILE: Not Applicable BULK DENSITY (Ibs./cu ft): 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 LC₅₀: (Rat): >2000 mg/kg body weight (AI) ORAL LD₅₀: (Rat): >5000 mg/kg body weight (AI) INHALATION LC₅₀: (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 **OSHA:** Not Listed NTP: 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, <u>Prodiamine</u>: (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.

XIV. TRANSPORTATION INFORMATION:

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

XV. REGULATORY INFORMATION - UNITED STATES

| SARA TITLE III (SUPERFUND AMENDMEN | ITS 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%); 100-1338-10404 (0.28%); 100-1339-10404 (0.38%)

Preparation and distribution of this Material Safety Data Sheet is done for LESCO, Inc., pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. LESCO makes no warranty of merchantability of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product.

LESCO, Inc. assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material and LESCO's responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which any damages are claimed. All vendees or users assume all risk associated with the use of the material(s).

For further information, contact: LESCO, Inc. • 1301 East 9th Street, Suite 1300 • Cleveland, OH 44114-1849 or (800) 321-5325.