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I. PRODUCT IDENTIFICATION

PRODUCT NAME:

LESCO Stonewall® Pre-emergence Herbicide plus Fertilizer;
 LESCO Stonewall® (0.20%, 0.29%, 0.37%, 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. 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 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 ³ (dust)
Iron Sulfate	0 – 10	7720-78-7	15 mg/M ³ (dust)
Manganese Oxide	0 – 10	1317-35-7	15 mg/M ³ (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

Lower Explosion Limits: Not Applicable

NFPA/HMIS Rating: Health: 2

EXTINGUISHING MEDIA:

<input checked="" type="checkbox"/>	Foam
<input checked="" type="checkbox"/>	Water Spray

Auto Ignition Temperature: Not Applicable

Upper Explosion Limits: Not Applicable

Fire: 1 Reactivity: 0

<input type="checkbox"/>	Alcohol Foam	<input checked="" type="checkbox"/>	Dry Chemical
<input checked="" type="checkbox"/>	Use media suitable for surrounding fire	<input checked="" type="checkbox"/>	CO ₂

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 HYGIENIC 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 (lbs./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

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 (t_{1/2} = 0.33 hr @ pH 5.5) and soil (t_{1/2} – 50 hr). Degradation in soil, in the dark is variable under aerobic conditions (t_{1/2} ~ 57 – 218 d), more rapid under anaerobic conditions (t_{1/2} ~ 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 AMENDMENTS AND REAUTHORIZATION ACT):

Y Immediate (Acute Health)

N Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302: Not Applicable

SEC 304: Not Applicable

SEC 313: Not Applicable

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

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%); 60063-41-10404 (0.29%); 60063-40-10404 (0.39%);
100-1338-10404 (0.28%); 100-1339-10404 (0.38%)

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