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DATE ISSUED: 3/9/06
SUPERSEDES: 10/02/02

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Eliminate-D Broadleaf Herbicide, LESCO Bentgrass Selective Herbicide
Chemical Family: Mixture
Chemical Name/Synonyms: 2,4-D, MCPP-p, Dicamba

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	6.60	2008-39-1	10 mg/M3 (2,4-D Acid)
Dimethylamine Salt of (+)-R-2-(2-methyl-4-Chlorophenoxy) propionic Acid	9.97	66423-09-4	Not Established
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-anisic Acid)	2.64	2300-66-5	Not Established
Water and Sequesterents	80	N	Not Established

III. HAZARDS IDENTIFICATION

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

POTENTIAL HEALTH EFFECTS: Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause muscle weakness, lethargy, loss of appetite, abdominal pains, headache, or shortness or breath. May irritate the respiratory tract or cause dizziness.

EYE: Direct and prolonged exposure to the concentrated product may cause corneal opacity, irreversible eye damage.

SKIN: Considered a minimal skin irritant and is not a dermal sensitizer. Harmful if absorbed through skin.

INHALATION: Avoid inhaling vapors or mist. May irritate the respiratory tract or cause dizziness.

INGESTION: May cause muscle weakness, nausea, diarrhea, and abdominal pain. Fall in blood pressure or myotonia (prolonged muscular spasm) may occur under extreme exposure conditions. Can be fatal.

MEDICAL CONDITIONS AGGRAVATED: Skin exposure may aggravate existing skin conditions.

Exposure to mist may aggravate existing respiratory conditions.

POTENTIAL ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. 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 apply when weather conditions favor drift from target areas. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate domestic or irrigation waters.

IV. FIRST AID MEASURES

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.

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.

INHALATION: 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.

INGESTION: Call 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 by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): Not Applicable (non-aqueous solution)

Lower Explosion Limits: Not Applicable

NFPA/HMIS Rating: Health: 2

EXTINGUISHING MEDIA:

Foam (large fire)

Alcohol Foam

Dry Chemical (small fire)

Water Spray (to cool containers)

Water Fog or Stream (large fire)

CO₂ (small fire)

Auto Ignition Temperature: Not Applicable

Upper Explosion Limits: Not Applicable

Fire: 1

Reactivity: 0

EXPLOSION HAZARDS: Drums of product will burst from steam pressure under prolonged fire conditions.

FIRE FIGHTING PROCEDURES: Use positive pressure self-contained breathing apparatus and acid resistant protective clothing. Any water used to extinguish the fire should be contained by diking to prevent contamination of the public water system.

HAZARDOUS COMBUSTION PRODUCTS: May produce toxic and noxious fumes under extreme fire conditions. May include, but are not limited to hydrogen chloride, carbon oxides, nitrogen oxides and organochlorides.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, wear the suggested safety equipment when cleaning large spills. Surround with impervious material such as dirt to prevent run-off. Absorb product with an inert absorbent such as clay granules or wood shavings. Contain all affected material in a closed, marked container for proper disposal. Treat contaminated area with detergent and water. 2,4-D spills are subject to CERCLA (Superfund) reporting requirements. Reportable Quantity (RQ) = 41 gallons.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Always use original container to store pesticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides, or fungicides. Store at room temperatures above 32F. If allowed to freeze, remix before using. Freezing does not alter this product. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food, or feed by storage or disposal.

OTHER PRECAUTIONS: If this container is over one gallon and less than five gallons, then persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron. If this container is five gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. Keep out of reach of children.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Open ventilation. Reduce all mist with local exhaust. If this container is five gallons or more in capacity, do not open our product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Wear splash goggles, face shield, or safety glasses with front, brow, and temple protection.

RESPIRATORY: Respiratory protection is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist.

GLOVES: Rubber or chemical-resistant gloves

PROTECTIVE CLOTHING: Long sleeved shirt, long pants, socks, and shoes. Persons engaged in open pouring must wear coveralls or a chemical resistant apron. (See Precautionary Statement on product label for details)

WORK HYGENIC PRACTICES: 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 protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >212F
FREEZING POINT: 32F
VAPOR DENSITY (air = 1): Not Established

ODOR: Slight ammonia odor
APPEARANCE: Dark liquid
pH: 7.5 – 8.5

SPECIFIC GRAVITY (H₂O=1): 1.147
EVAPORATION RATE: Not Established
VAPOR PRESSURE (mmHg@20C):
 Equal to water
SOLUBILITY IN WATER: 100%
PERCENT VOLATILE:
BULK DENSITY (lbs./gal): 9.55

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid heat conditions
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Strong oxidizers or acids
HAZARDOUS DECOMPOSITION PRODUCTS: No Data

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit): corrosive, irreversible corneal damage

SKIN EFFECTS: (Rabbit): minimal irritant

DERMAL LC₅₀: (Rabbit): >2 g/kg

ORAL LD₅₀: (Male Rat): >0.5 g/kg; (Female Rat): 0.93 g/kg

INHALATION LC₅₀: (Rabbit): >3.57 mg/L; no mortality at max obtainable concentration

SENSITIZATION: (Guinea Pig): not a sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE: May irritate the respiratory tract or cause dizziness.

Direct and prolonged eye exposure to the concentrated product may cause corneal opacity, irreversible eye damage. Considered a minimal skin irritant. Harmful if absorbed through skin. May cause similar symptoms to ingestion. Ingestion may cause muscle weakness, nausea, diarrhea, and abdominal pain. Fall in blood pressure or myotonia (prolonged muscular spasm) may occur under extreme exposure conditions. Can be fatal.

CHRONIC EFFECTS FROM OVEREXPOSURE: Repeated or prolonged overexposure to phenoxy herbicides may cause liver, kidney, gastrointestinal or muscular system effects.

CARCINOGENICITY: The EPA's Science Advisory Panel has given 2,4-D and Dicamba a class D classification (not classifiable as to human carcinogenicity). Various epidemiological studies have yielded conflicting results with the majority being negative. The current scientific consensus is that there is no proven causal association between 2,4-D and cancer. Recent studies have not shown 2,4-D to be a mutagen or teratogenic. Animal tests with Dicamba have not demonstrated carcinogenic, teratogenic, or other reproductive effects with the exception of slightly reduced fetal body weights and post implantation losses reported at the Maximum Tolerated Dose level. The majority of evidence shows that it is not a mutagen. Other chronic effects of MCPP-p have not been determined.

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: Not Listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: 2,4-D, MCPP-p, and Dicamba each have a relatively short half-life of (on average) 6 to 9 days, 5 to 17 days, and 1 to 4 weeks, respectively. Phenoxy herbicides and Dicamba are biodegraded by soil microbes and aquatic microorganisms. The active ingredients in this product do not bioaccumulate to any significant degree in animals.

ECOTOXICOLOGICAL INFORMATION: This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants.

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixtures or rinsate is a violation of federal law and may contaminate groundwater. If product cannot be disposed of by use according to the label, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container: Triple rinse (or equivalent) and offer for recycling, or puncture and dispose of in a sanitary landfill. Plastic containers are also disposable by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Regulated (container size 55 gal., 220 gal., & 260 gal) **(All smaller containers sizes are NOT regulated)**

Proper Shipping Name:

RQ Environmentally Hazardous Substances, Liquid, N.O.S. (2,4-D Salt)

Hazard Class:

9

ID NO.:

UN 3082

U.S. Surface Freight Class:

Packing Group: III; Guide No.: 171

Reportable Quantity (RQ):

100# of 2,4-D or approx. 41 gal

Marine Pollution #1:

Not Applicable

HM 181 Shipping Name:

Not Applicable

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

Y Immediate (Acute Health)

Y Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): Not Applicable

SEC 304 (Emergency Release Notification): Not Applicable

SEC 313 (Toxic Chemicals): Dimethylamine of Dicamba (2300-66-5)

CERCLA RQ: 100# of 2,4-D acid equivalent or approx. 41 gallons. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

CAA RQ: Not Applicable

EPA Registration No.: 10404-44

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