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I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Merit® 0.2 Plus Fertilizer

Chemical Family: Chloronicotinyl

Chemical Name/Synonyms: Imidacloprid

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Imidacloprid Technical	0.20	138261-41-3	Not Known
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 (resp)
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	ND
Sulfur	0 – 20	7704-34-9	5 ppm (SO ₂)
Iron (Ferric) Oxide	0 – 10	1309-37-1	15 mg/M ³ (dust)
Iron (Ferrous) 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)
Methylene Urea	0 – 10	9011-05-6	5 mg/M ³ (dust)
Sulfate of Potash-Magnesia	0 – 10	14977-37-8	NE
Magnesium Carbonate	0 – 10	39409-82-0	15 mg/M ³ (dust)

III. HAZARDS IDENTIFICATION

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

POTENTIAL HEALTH EFFECTS: Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing.

EYE: Causes eye irritation

SKIN: May cause skin irritation.

INHALATION: Not Known

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED: No specific medical conditions are known which may be aggravated by exposure to active ingredient. Fertilizer portion may cause mild irritation to eyes and skin. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.

POTENTIAL ENVIRONMENTAL HAZARDS: This product is highly toxic to aquatic invertebrates. 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 contaminate water when disposing of equipment washwaters.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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 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 person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: No specific antidote is available. Treat symptomatically.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA: Foam
 Water

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

Fire: 1 **Reactivity:** 1

Alcohol Foam Dry Chemical
 Other CO₂

EXPLOSION HAZARDS: Under fire conditions, toxic, corrosive fumes are emitted. Dispersion of fine dust in the air can form an explosive mixture.

FIRE FIGHTING PROCEDURES: Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain runoff to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires may become contaminated.

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.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with spilled product or contaminated surfaces. Avoid generating dust (a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary). Avoid breathing dusts and skin contact. Use recommended protective equipment while carefully sweeping up spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Handle and open container in a manner as to prevent spillage. Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

OTHER PRECAUTIONS: Do not walk through spilled material. Wash thoroughly with soap and water after handling.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Control exposure levels through the use of general and local exhaust ventilation.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Protective eyewear

RESPIRATORY: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

GLOVES: Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants. Shoes plus socks.

WORK HYGIENE 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as practical, wash thoroughly and change into clean clothing.

COMMENTS: 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. Follow all label instructions.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA

MELTING POINT: NA

VAPOR DENSITY (air = 1): NA

ODOR: Slight pungent odor

APPEARANCE: Multicolored granules

pH: ND

SPECIFIC GRAVITY: NA

EVAPORATION RATE: NA

VAPOR PRESSURE: NA

SOLUBILITY IN WATER: Moderate

PERCENT VOLATILE: NA

BULK DENSITY (lbs./cu ft): 45 – 65

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Exposure to extreme heat.

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: None known for active ingredient, imidacloprid.

Fertilizer: strong acids, caustic compounds, humid-wet conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal Decomposition:

Active Ingredient, imidacloprid: hydrogen chloride; hydrogen cyanide (hydrocyanic acid); carbon monoxide; nitrogen oxides (NOx).

Fertilizer: ammonia; formaldehyde; oxides of sulfur, phosphorus, iron, magnesium, manganese, potassium; cyanuric acid; biuret.

XI. TOXICOLOGICAL INFORMATION

Acute toxicology studies have not been performed on this product as formulated. The acute toxicity data provided below is from a similar product containing 0.5% imidacloprid on a 32-5-7 granular fertilizer. The non-acute information provided below pertains to the active ingredient, imidacloprid.

EYE EFFECTS: (Rabbit): Mild irritant

SKIN EFFECTS: (Rabbit): Mild irritant

DERMAL LC₅₀: (Rat, male & female): > 2,000 mg/kg

ORAL LD₅₀: (Rat, male & female): > 5,136 mg/kg

INHALATION LC₅₀: (Rat, male & female): 4-hr exposure to dust: > 5,016 mg/l (actual); (Rat, male & female): 1-hr exposure to dust (extrapolated from 4-hr LC₅₀): > 20 mg/l (actual)

SENSITIZATION: (Guinea pig): Not a skin sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE: Harmful if swallowed or absorbed through skin. Causes eye irritation.

CHRONIC EFFECTS FROM OVEREXPOSURE: Not known

CARCINOGENICITY: In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

IARC: Not listed

OSHA: Not listed

NTP: Not listed

OTHER: Not listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to aquatic invertebrate. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

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

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not regulated

Proper Shipping Name:

Fertilizing Compounds, N.O.I., Dry, having a density of equal to or greater than 20 lbs. per cubic foot

Hazard Class:

NA

U.S. Surface Freight Class:

18

Marine Pollution #1:

NA

HM 181 Shipping Name:

Not regulated

ID NO.:

NA

Reportable Quantity (RQ):

None

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**SEC 311/312:**

Y Immediate (Acute Health)

N Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): None

SEC 304 (Emergency Release Notification): None

SEC 313 (Toxic Chemicals): None

CERCLA RQ: None

CAA RQ: None

EPA Registration No.: 432-1349-10404; 3125-474-10404

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

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