

15885 Sprague Road, Strongsville, OH 44136
EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

DATE ISSUED: 1/9/03
SUPERSEDES: New

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Mach 2™ Plus Fertilizer (0.86%; 1%; 1.33%)

Chemical Family: NA

Chemical Name/Synonyms: Halofenozide: Benzoic acid, 4-chloro-2-benzoyl-2-(1,1-dimethylethyl)hydrazide

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Halofenozide:4-chloro-2-Benzoyl-2-(1,1-dimethylethyl) hydrazide	0.86 – 1.33	112226-61-6	NA
Formulated with one or more of the following ingredients. Check specific product label.			
Urea	0 – 95	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	5 mg/M ³ (resp)
Sulfur	0 – 10	7704-34-9	5 ppm (SO ₂)
Iron (Ferric) Oxide	0 – 10	1309-37-1	5 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)
UreaFormaldehyde	0 – 10	9011-05-6	*
Sulfate of Potash-Magnesia	0 – 10	14977-37-8	NE
Magnesium Carbonate	0 – 10	39409-82-0	15 mg/M ³ (dust)

*TLV of all chemicals and mixtures is 15 mg/M³; TWA is 10 mg/M³; Respirable dust TLV of 5 mg/M³, unless otherwise indicated.

III. HAZARDS IDENTIFICATION

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

POTENTIAL HEALTH EFFECTS: Dusts may cause moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing.

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Prolonged contact may cause slight skin irritation with local redness. May cause skin irritation due to mechanical abrasion.

INHALATION: Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

MEDICAL CONDITIONS AGGRAVATED: None known

POTENTIAL ENVIRONMENTAL HAZARDS: For terrestrial uses. 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 cleaning equipment or disposing of equipment washwaters.

This chemical (A.I.) has 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. Seek medical attention if irritation persists.

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 effects occur, seek medical attention.

INGESTION: If swallowed, 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. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Auto Ignition Temperature: NA

Lower Explosion Limits: NA

Upper Explosion Limits: NA

NFPA/HMIS Rating: Health: 2

Fire: 0

Reactivity: 1

EXTINGUISHING MEDIA: Alcohol Resistant Foam Alcohol Foam Dry Chemical
 Water Spray Other CO₂

EXPLOSION HAZARDS: Use water spray to cool containers exposed to fire. Dike and collect water used to fight fire. Remain upwind and avoid breathing smoke.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

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, sweep small spills of material into a covered container for proper disposal. If possible, reuse the material for its intended purpose. Rinse the spill area and any tools or implements several times with soapy water. Contain and absorb this rinsate with inert absorbents such as granular clay or sawdust, and place into the same covered container as the spilled material. Report large spills to Dow AgroSciences at 800-992-5995.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a cool, dry, well-ventilated area. Prevent cross contamination with other materials. Store in original container and out of reach of children. Open dumping is prohibited. Avoid temperature extremes during storage; ambient temperature preferred for storage. Do not contaminate water, food, or feed by storage or disposal. Keep container tightly closed when not in use.

OTHER PRECAUTIONS: Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses. If there is a potential for exposure to particles, which could cause eye discomfort, wear chemical goggles.

RESPIRATORY: In dusty or misty atmospheres, use a NIOSH approved particulate respirator

GLOVES: Cloth gloves

PROTECTIVE CLOTHING: Long sleeved shirt, long pants; shoes plus socks

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.

COMMENTS: Wash PPE separately from other laundry.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA	SPECIFIC GRAVITY: NA
MELTING POINT: NA	EVAPORATION RATE: NA
VAPOR DENSITY (air = 1): NA	VAPOR PRESSURE: NA
ODOR: Mild amine-like odor	SOLUBILITY IN WATER: Partial solubility depending on fertilizer grade
APPEARANCE: Multi-colored granules	PERCENT VOLATILE: NA
pH: 7 – 10 depending on fertilizer grade	BULK DENSITY (lbs./cu ft): 55 – 85

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known
STABILITY: /stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents
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. Urea can yield cyanuric acid or biuret upon heating.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Moderate irritation due to mechanical action
SKIN EFFECTS: Prolonged contact may cause slight skin irritation with local redness
DERMAL LC₅₀: (Rat) Slight irritation: >2000 mg/kg
ORAL LD₅₀: (Rat) Very low toxicity: 2850 mg/kg
INHALATION LC₅₀: (Rat) Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs: >2.7 mg/L
SENSITIZATION: Non-sensitizing
ACUTE EFFECTS FROM OVEREXPOSURE: May cause moderate eye and prolonged contact may cause slight skin irritation and local redness.
CHRONIC EFFECTS FROM OVEREXPOSURE: None known
CARCINOGENICITY:
IARC: Not Listed
NTP: Not Listed
OSHA: Not Listed
OTHER: Not Listed

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Based largely or completely on information for the active ingredient: Bioconcentration potential is moderate (BCF is between 100 and 3000 or the Log Pow between 3 and 5). Expected to be relatively immobile in soil (Koc is >5000).
ECOTOXICOLOGICAL INFORMATION: Based largely or completely on information for the active ingredient:
Material is moderately toxic to aquatic invertebrates on an acute basis (LC₅₀/EC₅₀ is between 1 and 10 mg/L.)
Material is practically non-toxic to birds on an acute basis (LD50 is >2000 mg/kg).
Material is lightly toxic to birds on a dietary basis (LC₅₀ is between 1001 and 5000 ppm).

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not contaminate water, food, or feed by storage or disposal
Pesticide Disposal: Wastes resulting from the use of this product that cannot be used according to label instructions may be disposed on site or at an approved waste disposal facility.
Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Regulated	Marine Pollution #1: NA
Proper Shipping Name: NA	HM 181 Shipping Name: Not Regulated
Hazard Class: NA	ID NO.: NA
U.S. Surface Freight Class: NA	Reportable Quantity (RQ): NA

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****Y Reactivity****SEC 302 (Extremely Hazardous Substance): NA****SEC 304 (Emergency Release Notification): NA****SEC 313 (Toxic Chemicals): NA****CERCLA RQ:** NA**CAA RQ:** NA**EPA Registration No.:**

62719-474-10404 (0.86%); 62719-489-10404 (1.00%); 62719-490-10404 (1.33%)

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

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For further information, contact: LESCO, Inc. • 15885 Sprague Road • Strongsville, Ohio 44136 or (800) 321-5325.