



MATERIAL SAFETY DATA SHEET #2309

15885 Sprague Road, Strongsville, Ohio 44136-1799
Emergency Phone: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

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SUPERSEDES: 03/30/00

I. PRODUCT IDENTIFICATION

Product: LESCO Merit 0.2 Plus Fertilizer Chemical Family: Chloronicotinyl
Chemical Name/Synonyms: Imidacloprid; BAY NTN 33893

II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
1-{{(6-chloro-3-pyridinyl)methyl}-N-nitro-2-imidazolidinimine	NA	0.20	138261-41-3
Urea		*	57-13-6
Ureaform		*	9011-05-6
Diammonium phosphate		*	7783-28-0
Potassium chloride		*	7447-40-7
Potassium sulfate		*	7778-80-5
Iron Sulfate		*	7782-63-0
Magnesium Sulfate		*	7487-88-9
Manganese Sulfate		*	7785-87-7
Iron Oxide		*	1309-37-1
Manganese Oxide		*	1317-35-7
Sulfate of potash magnesia		*	14977-37-8
Calcium carbonate		*	471-34-1
Magnesium Carbonate		*	39409-82-0
Sulfur		*	7704-34-9
Biosolids		*	ND

TLV of all fertilizer mixtures is 15 mg/M³; TWA is 10 mg/M³; Respirable dust TLV of 5 mg/M³
* Check specific fertilizer product label for exact ingredients.

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	NA	Specific Gravity (water=1):	NA
Melting Point:	NA	Bulk Density (lbs./cu. ft.):	45-65
Vapor Pressure (mm Hg):	NA	Evaporation Rate:	NA
Vapor Density (air = 1)	NA	Percent Volatile:	NA
Solubility in Water:	Moderate	Appearance and Odor:	Multicolored granules- slight pungent odor.
pH:	ND		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method Used):	NA (non combustible)	Auto Ignition Temperature:	NA
Lower Explosion Limits:	NA	Upper Explosion Limits:	NA
NFPA/HMIS RATING:	HEALTH 1	FIRE 1	REACTIVITY 0
Extinguishing Media:	[X] Foam [X] Water Spray	[] Alcohol Foam [] Other	[X] Dry Chemical [X] CO ₂

Special 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.

Unusual Fire and Explosion Hazards: 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. Dispersion of fine dust in the air may form an explosive mixture.

V. HEALTH HAZARDS

Primary Route(s) of Entry: Skin, inhalation, ingestion, eyes.

Signs & Symptoms of Exposure

Acute: No specific symptoms of acute overexposure to the active ingredient, imidacloprid. Fertilizer component may cause mild irritation to skin and eyes. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.

Emergency First-Aid Procedures

Eyes: Hold eyelids open and flush with clear water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Remove contaminated clothing and wash affected area with soap and water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

Ingestion: If ingestion is suspected, call a physician or a poison control center. Drink warm water and induce vomiting by

touching back of throat with finger, or if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15 ml) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

Note to Physician: Treat symptomatically.

Toxicity Information:

Oral LD₅₀ (acute rat): >5,136 mg/kg

Inhalation LC₅₀: 4 Hr. exposure to dust: Male and female rat , >5.016.

Eye Irritation: Mild irritation to the conjunctiva, clearing within 72 hours.

Skin Irritation: Slight dermal irritant.

Positive Teratogen or Mutagen Carcinogen(NTP): No Potential Carcinogen (IARC or OSHA): No

VI. REACTIVITY

Stability: Stable Unstable

Conditions to Avoid: None known

Incompatibility: None known for active ingredient, imidacloprid. Fertilizer component: Strong acids, caustic compounds, humid-wet conditions.

Hazardous Decomposition Products: For Imidacloprid: HCl, HCN, CO, NO_x. If heated to decomposition, fertilizer component 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.

Hazardous Polymerization: Will not occur Will occur

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled: Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing dusts and skin contact. Avoid generating dust. If material is not contaminated, scoop into clean, covered container for use. If contaminated, scoop into covered containers for disposal. Rinse area with water. Use dry absorbent material to collect rinse solution for proper disposal. Do not allow material to enter streams, sewers, or other waterways.

Waste Disposal Method: Follow container label instructions for disposal of wastes during use in compliance with the product label. In other situations, bury in an approved EPA landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

VIII. SPECIAL PROTECTION INFORMATION

Protective Equipment Suggested for Outdoor Application:

Impervious Gloves Dust Mask Respirator(use NIOSH/MSHA approved)

Impervious Boots Clean Clothing Eye Goggles / Safety Glasses

Protective Equipment Suggested for Confined Areas:

Sufficient Ventilation Respirator(use NIOSH/MSHA approved) Dust Mask

Splash Goggles/ Safety Glasses

Eyewash Station Emergency Shower Impervious Apron

IX. STORAGE AND HANDLING

Precautions: Store in a cool, dry place if possible. Separate from pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources. Do not eat, drink or smoke while handling this product.

Other Precautions: Keep out of reach of children. Practice good care and good safety precautions when handling this product. Avoid contact with eye, skin and clothing. Avoid breathing dust. Do not swallow. Wash thoroughly after handling.

X. FEDERAL REGULATORY INFORMATION:

SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

Y Immediate (Acute) Health

SEC 302: None

N Delayed (Chronic) Health

SEC 304: NA

N Fire

SEC 313: None

N Sudden Release of Pressure

CERCLA RQ: No components listed

N Reactivity

CAA RQ: NA

EPA Reg. No.: 3125-474-10404

HM 181 Shipping Name: Not Regulated.

TSCA: This product is exempt from TSCA Regulation under FIFRA §3(2)(B)(ii) when used as a pesticide.

RCRA: When discarded in its purchased form, this product would not be hazardous waste either by listing nor by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR § 261.20-24).

NA = Not Applicable ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 15885 Sprague Road, Strongsville, Ohio 44136-1799, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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For further information, contact: LESCO, Inc., • 15885 Sprague Road • Strongsville, Ohio 44136-1799 or (800) 321-5325.

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