



# MATERIAL SAFETY DATA SHEET # 2017

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## I. PRODUCT IDENTIFICATION

Product: LESCO Systemic Insecticide Contains Merit 75 WP or WSP  
Chemical Name/Synonyms: Imidacloprid; BAY NTN 33893

Chemical Family: Chloronicotinyl

## II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
1-((6-chloro-3-pyridinyl)methyl)-N-nitro-2-imidazolidinimine (Imidacloprid)	NA	75.0%	138261-41-3

Inert Ingredients: chemical identities are withheld as trade secrets.

## III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	NA	Specific Gravity (water = 1):	NA
Melting Point:	120-134° C (Imidacloprid)	Bulk Density (lb/cu ft):	30 lb/ft <sup>3</sup>
Vapor Pressure (mm Hg):	1.5 x 10 <sup>-9</sup> mm @ 20° C	Evaporation Rate:	NA
Vapor Density (air = 1):	NA	Percent Volatile:	NA
Solubility in Water:	9 - 10% of the mixture	Appearance and Odor:	Powder, solid, light brown.
pH:	1% slurry pH 6-8		

## IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used):	NA	Auto Ignition Temperature:	NA
Lower Explosion Limits:	NA	Upper Explosion Limits:	NA
NFPA/HMIS RATING:	HEALTH 1	FIRE 1	REACTIVITY 1
Extinguishing Media:	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> Dry Chemical
	<input checked="" type="checkbox"/> Water Spray	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> CO <sub>2</sub>

**Special Fire-Fighting Procedures:** Keep out of smoke, cool exposed containers with water spray. Fight fire from an upwind position. Use self-contained breathing equipment. Contain run-off by diking to prevent entry into sewers or waterways. Equipment or materials used in pesticide fires may become contaminated.

**Unusual Fire and Explosion Hazards:** NA

## V. HEALTH HAZARDS

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

### Signs & Symptoms of Exposure

**Acute:** No specific symptoms of acute overexposure are known to occur in humans. Based on EPA Toxicity Category criteria, this material is mildly toxic by the oral and dermal routes. In addition, animal studies have shown that it is not a dermal irritant nor a dermal sensitizer; however, it is mildly irritating to the conjunctiva of the eye, but the irritation is reversible within 7 days.

**Chronic:** No specific symptoms of chronic overexposure to the active ingredient in this material are known to occur in humans. Depending on the inert carrier used in the formulation of MERIT, however, this product may contain crystalline silica (quartz). If present, it can amount to approximately 6% of the formulation. The amount of respirable crystalline silica would be significantly lower than 6%, though, based on data provided by the raw material manufacturer. Excessive long-term exposure to respirable crystalline silica may cause silicosis, a form of progressive pulmonary fibrosis.

## Emergency First-Aid Procedures

**Eyes:** If in eyes, hold eyelids open and flush with water for 15 minutes. Call a physician if irritation persists or develops after flushing.

**Skin:** Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation persists. If signs of intoxication (poisoning) occur, get medical attention immediately.

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

**Ingestion:** If ingestion is suspected, call a physician or poison control center. Drink one or two glasses of 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 one to two glasses of water. If vomiting does not occur in 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

**Notes to Physician:** Treat symptomatically.

**Medical Conditions Aggravated by Exposure:** None known.

### Toxicity Information:

**Oral LD<sub>50</sub>:** Male & Female Rat: > 4820 mg/kg.

**Dermal LD<sub>50</sub>:** Male & Female Rabbit: > 2000 mg/kg.

**Inhalation LC<sub>50</sub>:** 4 hour exposure to dust, Male & Female Rat: > 5.09 mg/L (analytical).

**Eye Irritation:** Rabbit: mild irritation to the conjunctiva was observed with all irritation resolving within 7 days.

**Skin Irritation:** Not a dermal irritant.

**Positive Teratogen or Mutagen Carcinogen (NTP):** No

**Potential Carcinogen (IARC or OSHA):** No

#### VI. REACTIVITY

**Stability:**  Stable  Unstable  
**Conditions to Avoid:** Strong exothermal reactions above 200° C.  
**Incompatibility:** None known.  
**Hazardous Decomposition Products:** HCl, HCN, CO, NO<sub>x</sub>.  
**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. Use recommended personal 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. Do not allow material to enter streams, sewers, or other waterways.

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated 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. 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).

#### 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  
 Eyewash Station  Emergency Shower  Impervious Apron

#### IX. STORAGE AND HANDLING

**Precautions:** Store in a cool, dry area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals. Average temperature for 30 days should not exceed 100° F.

#### X. FEDERAL REGULATORY INFORMATION:

##### SARA TITLE III; SEC. 311/312 HAZARD CATEGORIES

**Immediate (Acute) Health**  
 **Delayed (Chronic) Health**  
 **Fire**  
 **Sudden Release of Pressure**  
 **Reactivity**

**SEC 302/SEC 304 TPQ:** None.

**SEC 313:** None

**CERCLA RQ:** No Components listed.

**CAA RQ:** None

**EPA Reg. No.:** 3125-421-10404, 3125-439-10404, 432-1314-10404, 432-1318-10404

**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

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