

# Dimension<sup>®</sup> Plus Fertilizer

20005 Lake Road, Rocky River, OH 44116  
**Emergency Phone:** LESCO: (440) 333-9250  
**CHEMTREC:** (800) 424-9300  
**DATE ISSUED:** 3/14/00  
**SUPERSEDES:** 12/02/99

## I. PRODUCT IDENTIFICATION

**Product:** LESCO<sup>®</sup> Professional Control Product Dimension<sup>®</sup> Plus Fertilizer  
**Chemical Name/Synonyms:** Dithiopyr  
**Chemical Family:** NA

## II. PRODUCT INFORMATION: INGREDIENTS

Chemical Name	TLV/TWA	%(by wt.)	CAS#
Dithiopyr, 3,5-pyridinedicarbo- thioic acid, 2-(difluoromethyl)- 4-(2-methylpropyl)- 6-(trifluoromethyl)- S,S-dimethyl ester	None	0.07 - 0.21%	97886-45-8
Formulated with one or more of the following ingredients. Check specific product label.			
Urea	10 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)	0-98	57-13-6
Potassium Chloride	10 mg/M <sup>3</sup>	0-95	7447-40-7
Potassium Sulfate	10 mg/M <sup>3</sup>	0-95	7778-80-5
Monoammonium Phosphate	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> TLV	0-95	7722-76-1
Diammonium Phosphate	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)	0-95	7783-28-0
Ammonium Sulfate	15 mg/M <sup>3</sup> (dust)	0-95	7783-20-2
Calcium Carbonate	ND	0-95	1317-65-3
Sulfur	5 ppm(SO <sub>2</sub> )	0-20	7704-39-9
Iron Oxide	15 mg/M <sup>3</sup> (dust)	0-10	1309-37-1
Iron Sulfate	15 mg/M <sup>3</sup> (dust)	0-10	7720-78-7
Manganese Oxide	15 mg/M <sup>3</sup> (dust)	0-10	1317-35-7
Magnesium Sulfate	15 mg/M <sup>3</sup> (dust)	0-10	7478-88-9

## III. PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA  
**Melting Point:** 133°C(urea)  
**Vapor Pressure (mm Hg):** NA  
**Vapor Density (air = 1):** NA  
**Solubility in Water:** Disperses  
**pH:** NA  
**Specific Gravity (water=1):** NA  
**Bulk Density (lbs./cu. ft.):** 45-65  
**Evaporation Rate:** NA  
**Percent Volatile:** NA  
**Appearance and Odor:** Yellow granules, nutty odor.

## IV. FIRE AND EXPLOSION HAZARD DATA

**Flash Point (method used):** NA  
**Lower Explosion Limits:** NA  
**Auto Ignition Temperature:** NA  
**Upper Explosion Limits:** NA  
**NFPA/HMIS RATING:**

HEALTH 2

FIRE 1

REACTIVITY 0

**Extinguishing Media:**

- Foam  
 Alcohol Foam  
 Dry Chemical  
 Water Spray  
 Other  
 CO<sub>2</sub>

**Special Fire-Fighting Procedures:** Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing. Keep unnecessary

people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog - solid stream may cause spreading.

Do not contaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - if water enters a drainage system, advise the authorities downstream.

Avoid heavy dose streams; airborne dusts may create an explosion hazard. Fertilizer will become slippery when wet. Guard against falls.

**Unusual Fire and Explosion Hazards:** This material has been tested in a 20-liter spherical bomb and has been found to be a Class ST-1 dust explosion hazard. If the material is further processed, the dust explosion hazard may change and it should be retested. At high temperatures, nitrogen containing fertilizer can form cyanuric acid, hydrogen cyanide and ammonia. Ammonium carbamate may also be formed. Contamination with strong acids may create an explosion hazard. Fertilizer will become slippery when wet. Guard against falls.

## V. HEALTH HAZARDS

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

### Signs & Symptoms of Exposure

**Acute:** Direct contact with the material can cause substantial irritation.

**Chronic:** Repeated overexposure to the active ingredient in this material can cause the following: Kidney effects, liver effects, blood effects, thyroid damage, adrenal effects.

### Emergency First-Aid Procedures

**Eyes:** Flush with copious amounts of water. Get medical attention.

**Skin:** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Give artificial respiration if not breathing and get medical attention.

**Ingestion:** Drink two glasses of water. Immediately seek medical attention.

### Toxicity Information:

**Oral LD<sub>50</sub>:** Acute(rat): 3600 mg/kg

**Eye Irritation:** rabbit: substantial irritation.

**Dermal LD<sub>50</sub>:** Acute(rabbit): >5000 mg/kg

**Skin Irritation:** rabbit: severe irritation.

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

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

## VI. REACTIVITY

### Stability:

- Stable  
 Unstable

**Conditions to Avoid:** None

**Incompatibility:** Avoid contamination with oxidizing agents or strong alkalis.

**Hazardous Decomposition Products:** Possible combustion products of fertilizer component include oxides of carbon, sulfur and nitrogen. Urea also decomposes to biuret and cyanuric acid. Urea reacts with sodium or calcium hypochlorite to form explosive nitrogen trichloride.

### Hazardous Polymerization:

- Will not occur  
 Will occur

## VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

**If material is spilled:** If dry, sweep or shovel into a container for reuse per label instructions or disposal. If liquid, contain spill and absorb with inert material and place in container for disposal. Prevent from entering drains, sewers or water sources. Avoid contact with skin, eyes, clothing.

**Waste Disposal Method:** Dispose according to Federal EPA procedures as outlined in the Resource Conservation Recovery Act (RCRA) and follow state and local guidelines. Be sure containers are completely empty before disposal.

## 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 other pesticides, fertilizers, seed, feed, foodstuffs, and away from drains, sewers, and water sources.

**Other Precautions:** Do not store in temperatures above 120°F. Keep away from fire, sparks or other ignition sources. Segregate from oxidizers and incompatible material listed under Reactivity Data Section. Due to dust explosion hazard, all equipment should have explosion venting per NFPA 68-1978. All electrical wiring and equipment should meet the provisions of NFPA-70. Store in original, unopened or sealed containers. Do not store in unmarked containers. Wash thoroughly with soap and water after handling.

## 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:** NA

**SEC 304:** NA

**SEC 313:** NA

**CERCLA RQ:** NA

**CAA RQ:** NA

**EPA Reg. No.:** 10404-84, 10404-85, 10404-86, 10404-87

**HM 181 Shipping Name:** Not Regulated.

NA = Not Applicable

ND = Not Determined

Preparation and distribution of this Material Safety Data Sheet done by LESCO, Inc., 20005 Lake Road, Rocky River, Ohio 44116, pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**For further information, contact: LESCO, Inc. • 20005 Lake Road • Rocky River, Ohio 44116 or (440) 333-9250.**