

# UNITED FERTILIZER TECHNOLOGIES, LLC

## SAFETY DATA SHEET

Revision Date: 04/01/16

### I. PRODUCT IDENTIFICATION

**PRODUCT NAME:** PROTENE 12-0-24, 19-0-19 and 20-0-5 Fertilizer

Product Identity: Homogenous Granular Fertilizer

Product Use: Fertilizer

Supplier / Manufacturer:  
United Fertilizer Technologies, LLC  
23011 Airpark Drive  
Petersburg, VA 23803  
804-732-6551

Emergency Phone Number: 804-732-6551 (8:00AM – 5:00PM M-F)

### II. HAZARDS IDENTIFICATION

Signal Word: Warning



**MAY BE HARMFUL IF SWALLOWED  
MAY CAUSE MILD SKIN IRRITATION  
MAY CAUSE EYE IRRITATION  
MAY CAUSE RESPIRATORY IRRITATION**

HAZARD CLASSIFICATION	CATEGORY	INTERPRETATION
Acute Toxicity	5	Low
Skin Irritation	3	Mild Skin Irritation Possible
Eye Irritation	2B	Transient Respiratory Irritation Possible

#### PRECAUTIONARY STATEMENTS:

- May cause irritation to eyes and skin.
- Ingestion of large amounts may cause gastrointestinal tract disorders, nausea, diarrhea and/or vomiting.
- If in eyes, wash with water for several minutes. Remove contact lenses.
- If eye irritation persists, get medical advice.
- If on skin, wash with plenty of soap and water.
- If skin irritation occurs, get medical advice.
- Overexposure to dusts may cause mucous membrane and upper respiratory irritation.
- Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.
- Dispose of contents and container in accordance with national, regional and local regulations.
- Keep out of reach of children

### III. COMPOSITION / INFORMATION ON INGREDIENTS

**TRADE SECRET – Exact percentages (concentration) of ingredients has been withheld.**

Reacted with and containing one or more of the following ingredients. Check specific product label.

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CHEMICAL NAME	%(by/wt.)	CAS#
Ammonia-urea-formaldehyde polymer	5 - 50	27967-29-9
Ammonium Sulfate	0 - 40	7783-20-2
Protein Hydrolysate	0 - 40	N/A
Hydrolyzed Feather Meal	0 - 10	N/A
Iron Humate	0 - 30	N/A
Iron (Ferrous) Sulfate	0 - 15	7720-78-7
Manganous Sulfate	0 - 15	7439-96-5
Methylene Urea	0 - 95	9011-5-6
Potassium Sulfate	0 - 60	7778-80-5
Sunflower Seed Hull Ash	0 - 60	N/A
Urea	0 - 95	57-13-6
Zinc Sulfate	0 - 20	7733-02-0

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### IV. FIRST AID MEASURES

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<b>EYE CONTACT:</b>	Flush with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
<b>SKIN CONTACT:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. Get medical attention if irritation persists.
<b>INHALATION:</b>	If symptoms develop, remove person from source of exposure to fresh air. If respiratory symptoms persist, get medical attention.
<b>INGESTION:</b>	Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**NOTES TO MEDICAL DOCTOR:** Treat symptomatically

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### V. FIRE FIGHTING MEASURES

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<b>EXTINGUISHING MEDIA:</b>	Foam or Water
<b>SPECIFIC FIRE HAZARD:</b>	Decomposition products may be hazardous
<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	Wear full protective clothing and positive pressure self-contained breathing apparatus

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### VI. ACCIDENTAL RELEASE MEASURES

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<b>SPILL PROCEDURE:</b>	If material is spilled, and not contaminated, sweep, vacuum or shovel material into labeled container with minimum generation of dust for reuse or disposal. If contaminated, scoop into containers for disposal.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Do not allow product to contaminate any body of water.

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### VII. HANDLING AND STORAGE

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<b>GENERAL PROCEDURES:</b>	Store in a cool dry place. Separate from pesticides, seed, feed, foodstuffs, and away from drains, sewers and water sources.
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**OTHER PRECAUTIONS:** Keep out of reach of children and animals.

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### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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CHEMICAL NAME	CAS#	PEL/TLV
Reacted with and containing one or more of the following ingredients. Check specific product label.		
Ammonia-urea-formaldehyde polymer	27967-29-9	15 mg/M <sup>3</sup> (dust) 5 mg/M <sup>3</sup> (resp)
Ammonium Sulfate	7783-20-2	NE
Calcium Sulfate Dihydrate	10101-41-4	15 mg/M <sup>3</sup> (dust)
Protein Hydrolysate	N/A	NE
Hydrolyzed Feather Meal	N/A	N/A
Iron Humate	N/A	NE
Iron (Ferrous) Sulfate	7720-78-7	15 mg/M <sup>3</sup> (dust)
Manganous Sulfate	7439-96-5	5 mg/M <sup>3</sup> (resp)
Methylene Urea	9011-5-6	5 mg/M <sup>3</sup> (dust)
Potassium Sulfate	7778-80-5	NE
Sunflower Seed Hull Ash	N/A	NE
Urea	57-13-6	10 mg/M <sup>3</sup> (dust)
Zinc Sulfate	7733-02-0	NE

TLV of all chemicals and mixtures is 15 mg/M<sup>3</sup> ; TWA is 10 mg/M<sup>3</sup> ; Respirable dust TLV of 5 mg/M<sup>3</sup> unless otherwise noted.

#### PROTECTIVE EQUIPMENT:

**EYE PROTECTION:** Safety glasses or goggles if eye contact is likely.

**SKIN AND BODY PROTECTION:** Gloves and standard work coveralls are recommended.

**RESPIRATORY PROTECTION:** Dust mask recommended for dusty conditions. If exposure limits are exceeded or irritation is experienced use a NIOSH/MSHA approved respirator. Respiratory protection must be provided in accordance with current local regulations.

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### IX. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Gray to brown granules
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	Not flammable
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Bulk Density:</b>	45 – 65 lbs/ft <sup>3</sup>
<b>Solubility:</b>	Partially soluble
<b>Partition Coefficient:</b>	Not available
<b>Auto Ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable

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### X. STABILITY AND REACTIVITY

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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Excessive heat

**INCOMPATIBLE MATERIALS:** Strong acids and caustic compounds

**HAZARDOUS DECOMPOSITION PRODUCTS:** If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde as well as oxides of magnesium, iron and potassium. Urea can yield cyanuric acid or biuret upon heating.

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### XI. TOXICOLOGICAL INFORMATION

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**HEALTH EFFECTS:** May be irritating to the nose,, throat and respiratory tract. May cause sore throat, coughing and shortness of breath. May be irritating to skin and eyes. Ingestion may result in sore throat, abdominal pain, nausea and diarrhea.

**CARCINOGENICITY:** None of the ingredients are known / listed carcinogens.

**INGREDIENT TOXICITY RANGES:**

**ORAL:** Ammonium Sulfate 4,250 mg/ kg  
Urea 14,3000 mg/kg

**DERMAL:** Ammonium Sulfate >2,000 mg/kg

**INHILATION:** Not available

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### XII. ECOLOGICAL INFORMATION

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Product is not known to be eco-toxic, persistent or have the potential to bioaccumulate.

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### XIII. DISPOSAL CONSIDERATIONS

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Reuse recovered product when possible

Dispose in accordance with national, state, regional and local government regulations.

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### XIV. TRANSPORTATION INFORMATION:

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This product is not regulated as a transportation hazard.

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### XV. REGULATORY INFORMATION – UNITED STATES

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SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

Y Immediate (Acute Health)

N Delayed (Chronic Helath)

N Fire

N Sudden Release of Pressure

N Reactivity

SEC 302 (Extremely Hazardous Substance): NA

SEC 304 (Emergency Release Notification): NA

SEC 313 (Toxic Chemicals): NA

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CERCLA RQ: NA

CAA RQ: NA

EPA Registration No.: NA

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

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### XVI. OTHER INFORMATION

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Preparation and distribution of this Material Safety Data Sheet is done for UFT LLC pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. UFT makes no warranty of merchantability of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product.

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For further information, contact: United Fertilizer Technologies LLC 23011 Airpark Drive, Petersburg, VA 23803. 804-732-6551